MONTANA

THERMAL BREAK 120mm SLIDING SERIES



MONTANA THERMAL BREAK 120mm SLIDING SERIES

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GULF EXTRUSIONS

Gulf Extrusions Co. LLC, the flagship company of the Al Ghurair Group of Companies, was founded in 1976, Dubai, UAE where it has over the years earned the reputation known as one of the most innovative and reliable companies in the Middle East.

Located close to its raw material supplier Dubai Aluminium Company Ltd (DUBAL), the world's largest single smelter site, Gulf Extrusions has become one of the largest extrusion plants in the region.

Gulf Extrusions quality products can be seen in many of today's progressive structures. The company was formed with the sole purpose to meet the increasing demands for aluminium extrusions in domestic, regional and international markets.

Gulf Extrusions six presses and highly skilled workforce are able to produce 65,000 metric tonnes per annum with a rated capacity of 24,000 tonnes for powder coated finish, 6,000 tonnes for anodized finish and can offer more than 20,000 profile designs. These extrusions cover numerous industries ranging from architectural to transportation, engineering to structural sections, components for household items, HVAC and customized products.

During the progressive stages of Gulf Extrusions, from its inception to expansion, the company not only has acquired a majority share in the local market, it has also made its presence felt globally throughout the GCC countries, Indian sub -continent, South East Asia, Australia, Africa, Europe and Canada.

Our commitment and utmost priority is to provide customers with the finest quality of aluminium extrusions.

Gulf Extrusions looks ahead to inevitable challenges and product advancements of the new era.



Quality is an inseparable element of all activities carried out at Gulf Extrusions. Gulf Extrusions is dedicated to respond and deliver on time, high quality, tailor-made and cost effective products. The management and staff are committed to implement a comprehensive and integrated Quality Management System in accordance with the International Quality Standards of ISO 9001 and ISO 14001.

INTERNATIONAL STANDARD COMPLIANCE

Extrusions Dimensions Tolerances:

- BS EN 755 9:2008
- BS EN 12020 2:2008
- DIN 1748, DIN 17615
- ASTM B221

Powder Coated Finish:

- BS:6496 Clause: 10.4, 10.5, 10.6, 10.7 & 10.8
- ISO 2360 / 2813 / 2409 / 2931
- Minimum Film Thickness – 60 Microns

Anodizing Finish:

- BS EN 12373-1 2001 Clause 7 (BS:6161 Part 6)
- BS:3987 Clause 2, 3, 5, 6
- Appendix- A, B, C, D, E, F, G, H, J, K, L Minimum Film Thickness- 16 Microns







PRODUCT QUALITY CERTIFICATES



Qualicoat (European Powder Coaters Association):

- A quality label for coating on metal for Architectural Applications
- A product license under the control of EWAA (European Wrought Aluminium Association) in Zurich Switzerland



Qualanod (European Anodizers Association):

- A quality label organization to guarantee high quality Aluminium Anodizing.
- A product license under the control of EWAA (European Wrought Aluminum Association) in Zurich Switzerland



OHSAS

OHSAS 18001



SASO



ESMA



Health & Safety Management:

ISO 9001 (Quality Management System)



ISO/TS 16949:2009 (Management System)



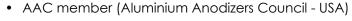
Environment:

• ISO 14001 (Environment Management System)



Membership in International Organization:







 AEC member (Aluminum Extruders Council - USA) • DIN EN 15088



RoSPA's member



CHEMICAL COMPOSTIONS

ALLOY 6005A

Element	Minimum	Maximum		
Si	0.50	0.90		
Fe	-	0.35		
Сυ	-	0.30		
Mn	=	0.50		
Mg	0.40	0.70		
Cr	=	0.30		
Zn	-	0.20		
Ti	=	0.10		
Other Each	-	0.05		
Other Total	-	0.15		
Aluminium	Remainder			

ALLOY 6060

Element	Minimum	Maximum	
Si	0.30	0.60	
Fe	0.10	0.30	
Cu	-	0.10	
Mn	-	0.10	
Mg	0.35	0.60	
Cr	-	0.05	
Zn	-	0.15	
Ti	-	0.10	
Other Each	-	0.05	
Other Total	-	0.15	
Aluminium	Remainder		

ALLOY 6063

Element	Minimum	Maximum			
Si	0.20	0.60			
Fe	-	0.35			
Си	-	0.10			
Mn	-	0.10			
Mg	0.45	0.90			
Cr	-	0.10			
Zn	=	0.10			
Ti	-	0.10			
Other Each	-	0.05			
Other Total	-	0.15			
Aluminium	Remainder				

ALLOY 6082

Element	Minimum	Maximum			
Si	0.70	1.30			
Fe	-	0.50			
Cu	-	0.10			
Mn	0.40	1.00			
Mg	0.60	1.20			
Cr	0.04	0.15			
Zn	-	0.20			
Ti	-	0.10			
Other Each	=	0.05			
Other Total	-	0.15			
Aluminium	Remainder				

ALLOY 6061

Element	Minimum	Maximum	
Si	0.40	0.80	
Fe	-	0.70	
Cu	0.15	0.40	
Mn	-	0.15	
Mg	0.8	1.20	
Cr	0.04	0.35	
Zn	-	0.25	
Ti	-	0.15	
Other Each	-	0.05	
Other Total	-	0.15	
Aluminium	Remainder		

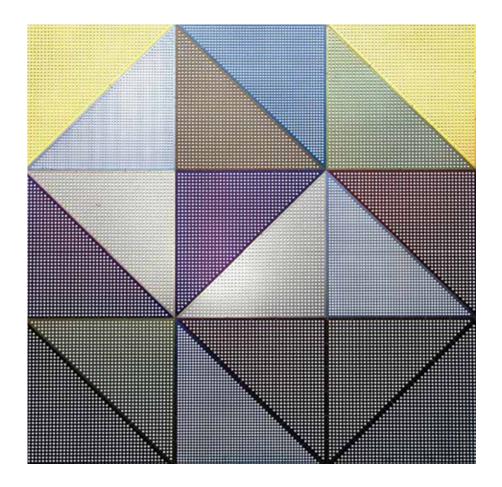


ANODIZING

A wide range of anodizing treatment options are possible for the aluminium profile sections of this system. The color choices from Gulf Extrusions range from Natural, Gold, and Bronze to Spectro colors (Red, Blue, Green, and Gray).

This surface treatment process involves first pre-treatment with scotch brite brushing for the unfinished profiles, and then subsequently fully immersing the aluminium profiles in an acidic electrolyte solution through which electric current is passed creating an anodic film on the profiles ranging from 5-30MICs.

The process is guaranteed and certified for use by QUALANOD - A quality label Organization to guarantee high quality aluminium anodizing and the company's ISO 9001 certification.





Authorization to use the quality sign



This is to certify that

GULF EXTRUSIONS CO. LLC

P.O. BOX 5598 AE – Dubai

Licence number: 2000

is authorized to use the quality sign which is shown above, according to the regulations for the use of the quality label for ARCHITECTURAL ANODIZING as described in the current edition of the Specifications for the QUALANOD quality label for sulfuric acid-based anodizing of aluminium (Edition 01.07.2010).

Date of issue of the licence: 10.03.2000
Period of validity of the licence: until 31.12.2017

Zurich, 15 November 2016

QUALANOD

CERTIFICATION BODY

José Arenas President Josef Schoppig AC-Fiduciaire SA



Mailing address:

QUALANOD, P.O. Box 1507, CH-8027 Zurich

Domicile:

QUALANOD c/o AC-Fiduciaire SA, Tödistrasse 47, CH-8002 Zurich

Phone: Fax: E-mail: Internet: +41 (0)43 305 09 70 +41 (0)43 305 09 98 info@qualanod.net www.qualanod.net



POWDER COATING

 Horizontal & Vertical Powder coating lines with an Annual Capacity of 24 000 MT Powder Coating BS: 6496 Clause: 10.4, 10.5, 10.6, 10.7, & 10.8 ISO 2360/2813/2409/2931
 Minimum Film Thickness - 60 Microns

A wide choice of colors for powder coating can be used for the aluminium profile sections.

From Gulf Extrusions the following powder types are available

- Polyester Façade (PE-F)
- Super Durable Façade (SDF) & Hyper Durable Façade (HDF) (Where SDF & HDF are equivalent to Poly-Vinyldine DiFluoride (PVDF) in terms of corrosion performance)
- Anti Bacterial (recommended to be used in Hospitals)
- Anti Static (recommended for laboratories, electronics assembly buildings) and Heat Resistant in nature.

This surface treatment process involves the following pre-treatment

- 1. Degreasing
- 2. Washing
- 3. Etching
- 4. Washing
- 5. Chromatising
- 6. Double washing in dematerialized water

Once completed, powder is applied using an electrostatic spraying process with charged powder particles, followed by curing in an oven under a controlled temperature of 180-200C for paint polymerization where the paint layer is at least 60mic.

This whole process is certified for use from QUALICOAT - A quality label for coating on metal for Architectural Applications.

GUARANTEE PERIOD: 10 years for PE-F Quality 25 years for PE-SDF



Authorization to use the quality sign



This is to certify that

GULF EXTRUSIONS CO. LLC

P.O. BOX 5598 AE – Dubai

Licence number: 1901

is authorized to use the quality sign which is shown above according to the REGULATIONS FOR THE USE OF THE QUALICOAT QUALITY SIGN FOR PAINT, LACQUER AND POWDER COATINGS ON ALUMINIUM FOR ARCHITECTURAL APPLICATIONS.

Date of issue of the licence: 15.03.2000
Period of validity of the licence: until 31.12.2017

Zurich, 15 November 2016

QUALICOAT

CERTIFICATION BODY

Mohammed C. Panam

President

Josef Schoppig AC-Fiduciaire SA



Mailing address:

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Domicile

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E-mail: info@qualicoat.net
Internet: www.qualicoat.net



INTRODUCTION TO THE SYSTEM

The New Montana Thermal Break 120mm Sliding System is designed for heavy duty use (H-HC40) according to the American National Standard. The results have been impressive and apply to energy conservation, sound reduction and water & dust proofing.

The Montana Thermal Break with 16mm fiberglass reinforced polyamide insulation has the sought after properties of high thermal resistance, rigidity, hardness and strength.

The importance of thermal conductivity in the aluminum frame becomes apparent when one considers that the frame accounts for an average of 25% of the total window surface.

- Normal Aluminium Profiles K=5.7W/M²k
- With 16mm Thermal Strip K=3.3W/M²k

The System consists of a single frame and sash profile that will be used on all four sides, with snap on track-clips.

The 16mm polyamide strips are introduced into the frame and sash profiles and then externally crimped using special tooling. The compressive test of the crimped profile is tested to ensure maximum strength.

The system covers two, three and four sashes including profiles for top and bottom fixed lights. Special lids have been designed to cover the frame tracks at the area where the sliding shutter is fixed.

In order to meet the needs of today's architects, window and door systems must be provided in a variety of colors. This system has the special advantage of permitting subsequent application of all presently known surfaces suitable for use with aluminium either after or before the thermal break strips have been assembled.

For better performance of the system, alignment cleats for the frame and shutter are used. Durable weather sealing mastic is a must at all joints. Specially designed EPDM gaskets are made available with the system to enhance the performance and create easy assembly. Other accessories such as roller & flush handles come as part of the system.



SYSTEM PERFORMANCE

Montana system has been tested at Bodycote:

- Air infiltration
- Static air pressure water penetration
- Wind resistance serviceability
- Wind resistance safety

AIR INFILTRATION (ASTM E283-04)

Test Pass/Fail Criteria

At 75 pascals, the average air flow through the fixed glazing shall not exceed 5.0m³/hour/m² based on the gross surface area of the wall measured from the exterior.

Calculation of permissible air infiltration through the sample

Permissible airflow rate through sample =5.0m³/hour/m² at 75Pa

Area of whole sample =2.16m²

Permissible airflow rate through sample =10.8m³/hour at 75Pa

STATIC AIR PRESSURE WATER PENETRATION (ASTM E331-00)

Test Pass/Fail Criteria

There shall be no water leakage. Water leakage is defined as penetration of water beyond a plane parallel to the glazing (the vertical plane) intersecting the innermost project of the test specimen, not including interior trim and hardware.

WIND RESISTANCE - SERVICEABILITY (ASTM E331-02)

Test Pass/Fail Criteria

At both positive and negative applications of the peak test pressure, no permanent damage shall have occurred and the maximum deflection shall not exceed the following: Framing members generally - 1/175 of the span along the unit edge.

WIND RESISTANCE - SAFETY (ASTM E330-02)

Test Pass/Fail criteria

At both positive and negative applications of peak pressure, there shall be no permanent damage to framing member, panels or anchors.

Permanent deformation to wall framing members shall not exceed 1/500 of the span measured between points of attachment one hour after loading has been removed.

THERMAL TRANSMITTANCE

Calculated values hotbox measurement U-value window / doors (EN ISO 12567)

Type of Insulation: Insulating Strips made of PA 66 GF 25

Project Area: 1.9m²

Sample

Projection area of sample: 1.9026 m^2 Thermal transmittance (rounded) (Ust) = $3.3 \text{ W/(m}^2\text{k})$ Extended uncertenity (according GUM) = $0.099 \text{ W/m}^2\text{k}$



الفطير 🛦 Al Futtain



Certificate of Testing Compliance CLADDING TECHNOLOGY DIVISION

Ref. AFBT Report No: DLR0335 Date: March 2007

AFBT Certificate No: WQ070 1555 / COT0335

System Supplier: Installer:

Gulf Extrusions Company LLC, Gulf Extrusions Company LLC,

P. O. Box 5598, P. O. Box 5598,

Dubai, Dubai, U.A.E U.A.E

System: System Development

HORIZONTAL SLIDING WINDOW

(MONTANA THERMAL BREAK 120MM SLIDING SERIES)

Al Futtaim Bodycote tested components from the above-mentioned system at their Dubai laboratory on the date shown for the following parameters:

Air Infiltration ASTM E283-04
 Water Penetration ASTM E331-00

Wind Resistance ASTM E330-02 (Serviceability)

Wind Resistance ASTM E330-02 (Safety)

At the time of test, the system was found to comply with specification requirements for all the parameters tested. This certificate relates only to the system described above, installed and tested at AI Futtaim Bodycote Dubai laboratory, as fully detailed in test report referenced above.

Tests marked ' ' in this report are not included in our UKAS schedule of accreditation.

Signed: Test Engineer

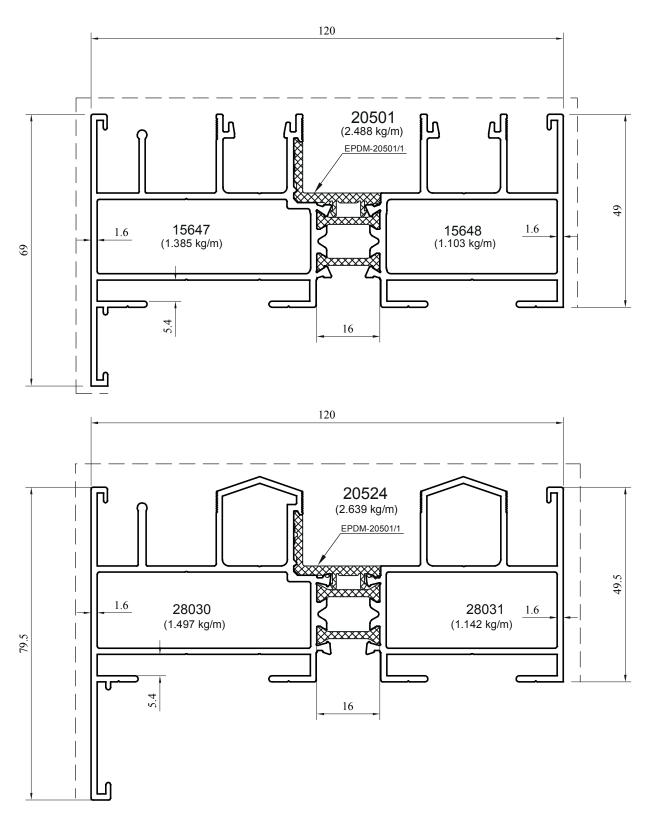
Signed: Cladding Manager



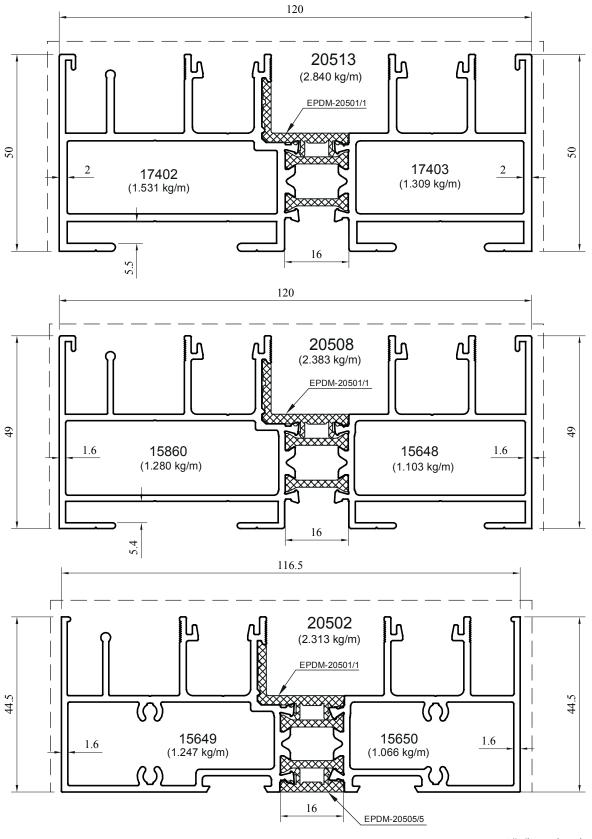
PROFILES



Flyscreen Inside



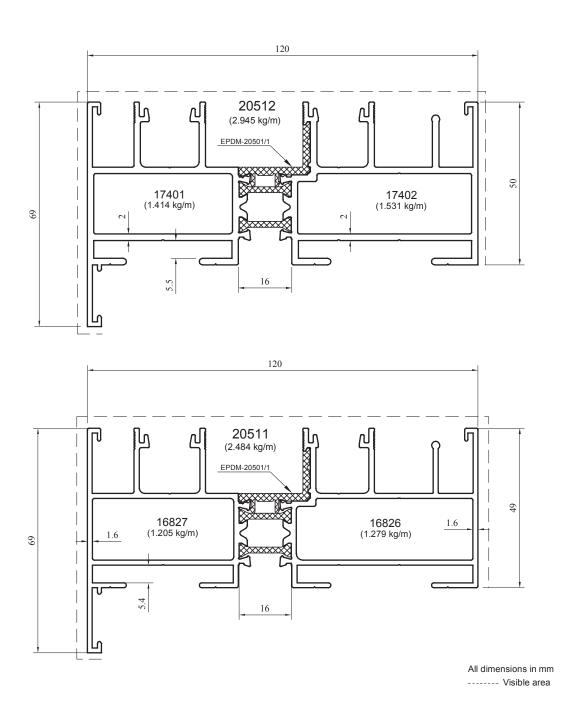




All dimensions in mm
____Visible area



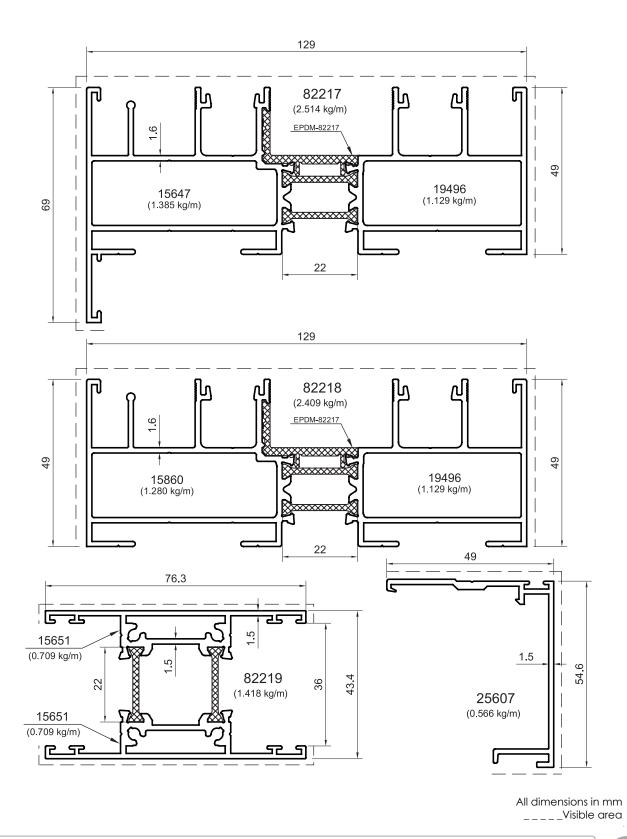
Flyscreen Outside





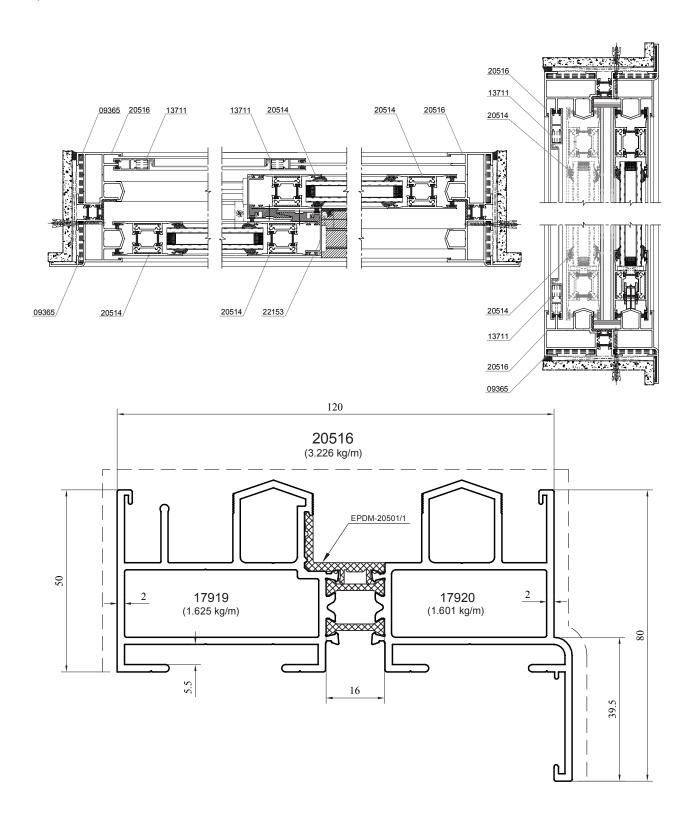
Frame Fixed Profiles

Frame and Sash Profiles 129mm



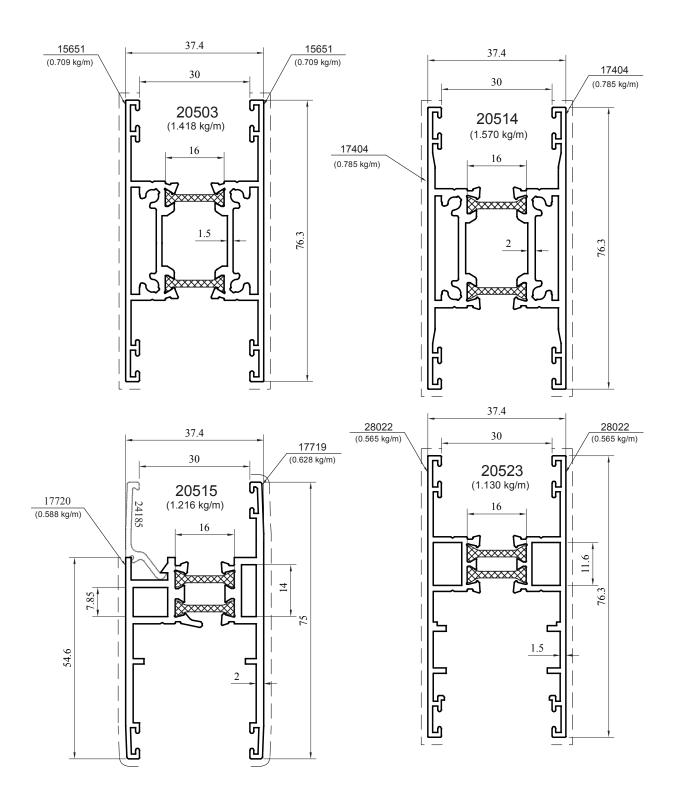


Flyscreen Outside





Sash Profiles

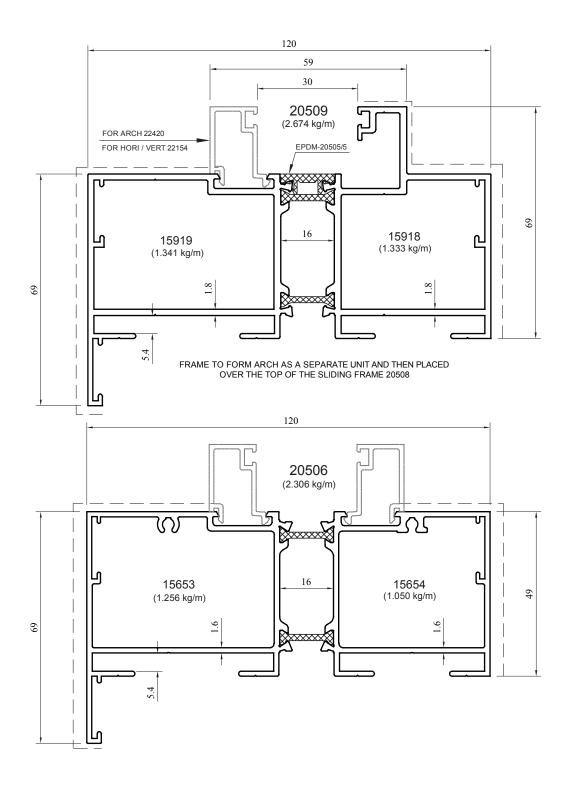


All dimensions in mm
____Visible area



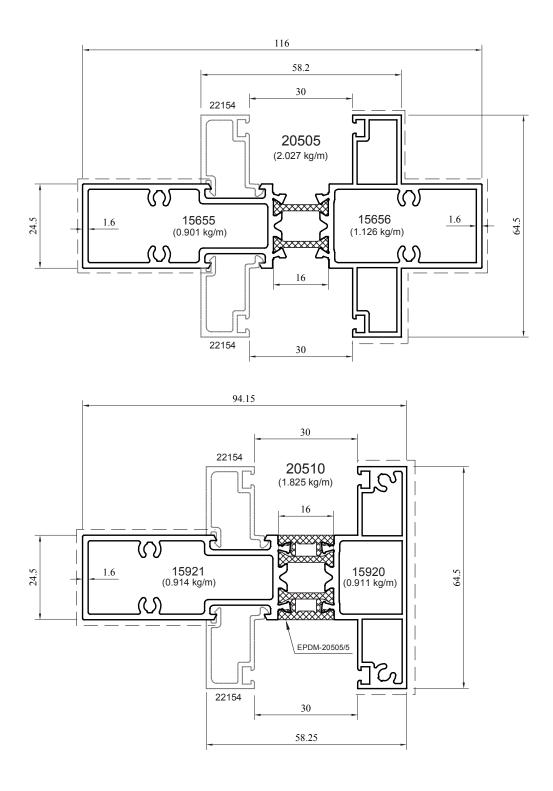
120-Е

Transom Profiles





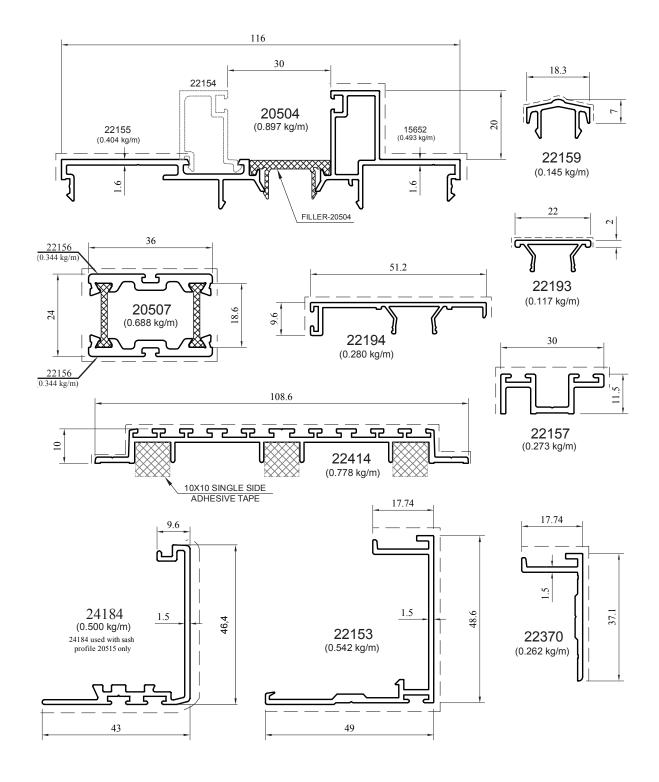
Interlock / Fix / Flyscreen Profiles



All dimensions in mm
____Visible area

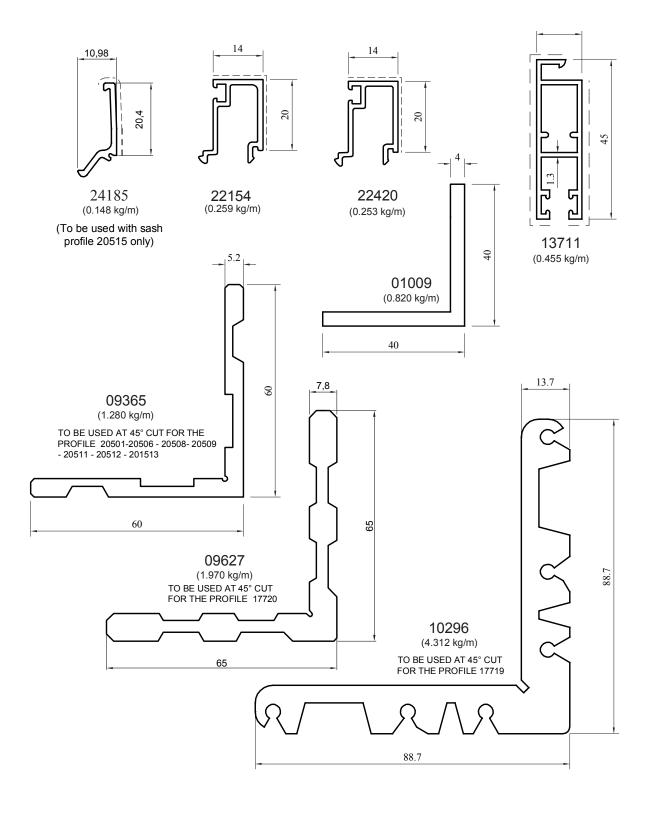


Complementary Profiles





Complementary Profiles



All dimensions in mm
____Visible area



PROFILE LIST



Profile Reference	Child Profile	Profile Section	Page	Weight KG/M	IX cm⁴	IY cm⁴	WX cm³	WY cm³
20501	15647+15648		14	2.488	22.00	144.60	4.58	13.25
20511	16826+16827		16	2.484	22.89	143.60	5.58	22.72
20512	17401+17402		16	2.945	26.68	170.03	6.663	27.11
20509	15919+15918		20	2.674	43.00	148.00	9.25	24.21
20508	15860+15648		15	2.383	18.60	131.0	8.30	21.57
20513	17402+17403		15	2.840	22.57	157.41	8.01	25.89
20502	15649+15650		15	2.313	15.20	111.40	5.92	19.35



Profile Reference	Child Profile	Profile Section	Page	Weight KG/M	IX cm⁴	IY cm⁴	WX cm³	WY cm³
20516	17919+17920		18	3.226	38.612	196.012	7.524	30.167
20506	15653+15654		20	2.306	31.13	131.91	12.34	22.54
20504	22155+15652	 	22	0.897	2.06	38.86	1.02	6.09
20505	15655+15656		21	2.027	14.78	83.83	4.58	13.25
20510	15921+15920		21	1.825	16.00	62.00	5.00	10.75
20503	15651+15651		19	1.418	11.06	18.42	5.91	4.83
20514	17404+17404		19	1.570	20.16	12.60	5.285	6.738



Profile Reference	Child Profile	Profile Section	Page	Weight KG/M	IX cm⁴	IY cm⁴	WX cm³	WY cm³
20515	17720+17719		19	1.216	13.420	10.094	3.494	4.870
20507	22156+22156		22	0.688	2.473	3.060	2.061	1.70
22157		HL	22	0.273	0.133	0.842	0.218	0.506
22153			22	0.542	6.734	4.166	2.199	1.159
24184		يبيي	22	0.500	4.734	2.716	1.457	0.873
22370			22	0.262	1.109	0.253	0.469	0.182
22194			22	0.280	0.073	2.630	0.098	0.929



Profile Reference	Child Profile	Profile Section	Page	Weight KG/M	IX cm⁴	IY cm⁴	WX cm³	WY cm³
22414		_ ****** *L	22	0.778	0.213	26.056	0.342	4.799
22159		1	22	0.145	0.042	0.175	0.058	0.191
22193		77	22	0.117	0.028	0.188	0.040	0.171
24185			23	0.148	0.350	0.045	0.245	0.056
22154		Ţ	23	0.259	0.553	0.315	0.407	0.288
22420		Ţ	23	0.253	0.537	0.308	0.394	0.294
13711			23	0.455	3.111	0.418	1.350	0.625



Profile Reference	Child Profile	Profile Section	Page	Weight KG/M	IX cm⁴	IY cm⁴	WX cm³	WY cm³
09365			23	1,280				
09627			23	1.970				
10296			23	4.312				
01009			23	0.820				
82217	15647 + 19496		17	2.514	172.415	23.442	25.920	5.776
82218	15860 + 19496		17	2.409	157.372	19.289	24.542	7.095
82219	15651 + 15651		17	1.418	19.799	16.391	5.190	7.553



Profile Reference	Child Profile	Profile Section	Page	Weight KG/M	IX cm⁴	IY cm⁴	WX cm³	WY cm³
25607			17	0.566				
20523	28022 +28022	<u></u> -	19	1.130	17.059	10.395	4.158	5.559
20524	28030 +28031		14	2.639	31.792	155.937	6.220	25.027



ACCESSORIES



Gasket Reference	Section	Description	Unit	
EPDM-20501-1		EPDM FILLER RUBBER FOR 20501/20502 & 20508	Linear Meter	
EPDM-20503-1		EPDM RUBBER FOR INTERLOCK PROFILES 20503 & 22153	Linear Meter	
EPDM-20515		EPDM RUBBER FOR INTERLOCK PROFILES 20515 & 24184	Linear Meter	
EPDM-20503-2	8778	EPDM RUBBER FOR 3 VENTS TO BE USED WITH 20503 & 22153	Linear Meter	
EPDM-20503-3	\	EPDM SEALING RUBBER TO BE USED WITH SASH 20503 - OUTWARD SIDE TO HOLD 24MM (DOUBLE GLAZED UNIT)	Linear Meter	
EPDM-20503-4		EPDM SEALING RUBBER TO BE USED WITH SASH 20503 -INWARD SIDE TO HOLD 24MM (DOUBLE GLAZED UNIT)	Linear Meter	
EPDM-20503-5	E	EPDM SEALING U-TYPE RUBBER TO BE USED WITH 20503 TO HOLD 24MM (DOUBLE GLAZED UNIT)	Linear Meter	



Gasket Reference	Section	Description	Unit
EPDM-20504	77	HARD EPDM, POLYMIDE OR EPDM FILLER FOR 20504 (22155+15652)	Linear Meter
EPDM-20505-5	estantes.	EPDM FILLER RUBBER FOR 20502 / 20505 / 20506	Linear Meter
EPDM-20507		EPDM SEALING RUBBER TO BE USED WITH 20503 & 20507	Linear Meter
600.13.001	piin	EPDM SEALING RUBBER FOR TOP / BOTTOM FIXED LIGHT (OUTWARD SIDE)	Linear Meter
600.13.007		EPDM SEALING RUBBER FOR TOP / BOTTOM FIXED LIGHT (INWARD SIDE)	Linear Meter
BRUSH 10MM HIGH (6.5-6.8 WIDE)	<u> IIML</u>	10MM FIN TYPE BRUSH FOR SASH PROFILE	Linear Meter
BRUSH 8.0MM HIGH (6.5-6.8 WIDE)	<u> </u>	8.0MM NORMAL BRUSH FOR INTERLOCK PROFILE 22153 & 22157 AND FOR PROFILE 22414	Linear Meter



Gasket Reference	Section	Description	Unit
CA-20501	18.4	1.5MM THICK CLEAT FOR PROPER ALIGNMENT OF FRAME PROFILE 20501/ 20506	Piece
CA-20503	- 68 	2.0MM THICK CLEAT FOR PROPER ALIGNMENT OF SASH PROFILE 20503	Piece
NED-503	2 <u>7</u> 1	NEEDLE BEARING ROLLER HOUSED IN AN ALUMINUM CHANNEL TO BE USED AT THE BOTTOM OF THE SASH PROFILE 20503	Piece
NED-515		NEEDLE BEARING ROLLER HOUSED IN AN ALUMINUM CHANNEL TO BE USED AT THE BOTTOM OF THE SASH PROFILE 20515	Piece
SUI-03-15	⊕ □□•	SUITABLE FLUSH TYPE HANDLE WITH LOCKING ARRANGEMENT (COUNTERPLATE + NIB)	Piece
HO-515		OUTSIDE HANDLE FOR SASH PROFILE 20515	Piece
HI-515		INSIDE EMBEDDED HANDLE FOR SASH PROFILE 20515	Piece



Gasket Reference	Section	Description	Unit
NIB-515		NIB FOR SASH PROFILE 20515	Piece
COU-515		COUNTER PLATE FOR SASH PROFILE 20515	Piece
END CAP BEC-22153 (BOTTOM END CAP)		PLASTIC END CAP TO COVER MILLED PART AT THE BOTTOM OF THE INTERLOCK PROFILE 22153	Piece
END CAP BEC-22153 (TOP END CAP)		PLASTIC END CAP TO COVER MILLED PART AT THE TOP OF THE INTERLOCK PROFILE 22153	Piece
SUC-120		DRAINAGE VALVE	Piece
SUP-120	└ -ੑੑੑਜ਼	DEFLECTOR	Piece
HOS-503		3.0 MM THICK HOLDING STRIP FOR FASTENING ROLLER ON SASH 20503 USING 2 M5X20 SCREWS	Piece



Gasket Reference	Section	Description	Unit
SCR-60		B 4.8 X 60 - DIN 7981 - A2 FOR TOP FIXED FRAME	Piece
SCR-45	(Samunumumum)	B 4.2 X 45 - DIN 7981 - A2 FOR SASH CORNER ASSEMBLY	Piece
SCR-32	(Smannanna)	B 4.2 X 32 - DIN 7981 - A2 FOR SASH CORNER ASSEMBLY	Piece
SCR-19	}	B 4.2 X 19 - DIN 7981 - A2 FOR LABYRINTH FASTENING	Piece
SCR-20	(111111111111111111111111111111111111	B 5 X 20 - DIN 965 - A2 FOR ROLLER FASTENING	Piece
GUXSSF0100		Single Roller to be used with 20503	Piece
GUXSDF0100		Double Roller to be used with 20503	Piece



Gasket Reference	Section	Description	Unit
GUXSDR0100		Double Adjustable Roller to be used with 20503	Piece
GUXSSF0200		Single Roller to be used with 20515	Piece
GUXSSR0200		Single Adjustable Roller to be used with 20515	Piece
GUXSDF0200		Double Roller to be used with 20515	Piece
GUXSDR0200		Double Adjustable Roller to be used with 20515	Piece
GUXBSM0100	Marie Control	BSM Manual Lock to be used with 20503 & 20515	Piece
GUXBSA0100		BSA Automatic Lock to be used with 20503 & 20515	Piece



Gasket Reference	Section	Description	Unit
GUXDUO		DUO Hook with Template anti Device System to be used with 20503 & 20515	Piece
GUXFAI0100		FAI Flat Inside Handle to be used with 20503 & 20515	Piece
GUXPOM0100		POM Open Operating Handle (Right & Left) to be used with 20503 & 20515	Piece
GUXPCM0100		PCM Standard Operating Handle to be used with 20503 & 20515	Piece
GUXFAH0100		FAH Flat Inside Handle to be used with 20503 & 20515	Piece
GUXPCF0100		PCF Standard Outside Handle to be used with 20503 & 20515	Piece
GUXFAE0100		FAE Flat Outside Handle to be used with 20503 & 20515	Piece

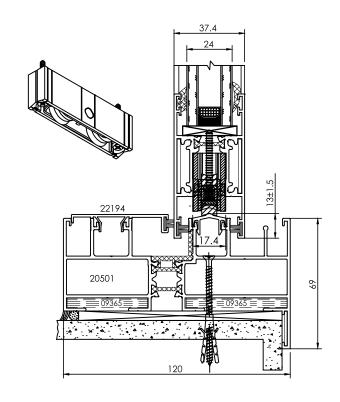


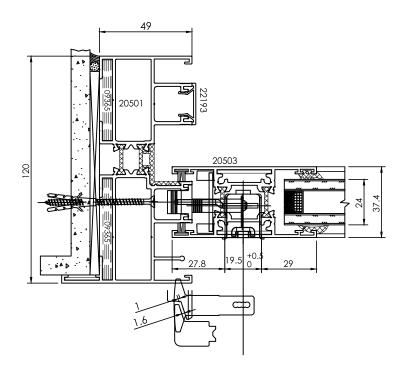
Gasket /Accessories Reference	Section	Description	Unit
GUXPOF0100		POF Open Outside Handle to be used 20503 & 20515	Piece
GUXPEC0100		PEC Open Outside Handle to be used with 20503 & 20515	Piece
GUX\$3G		S3G Sliding Three point Lock Kit	Piece
GUXBUT		Stopper	Piece
GUXGAV0100		Aluminium Locking Plate	Piece
EPDM-82217		EPDM Filler Rubber for Frame 82217 and 82218	Linear Meter

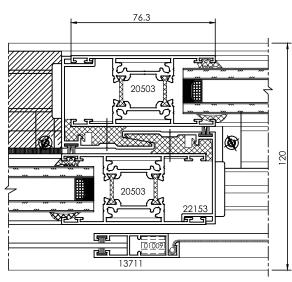


Sotralu Accessories

Profiles			
Description	Shape	Section No.	
Frame		20501	
SASH	Ħ	20503	
Fly Screen Frame	====	13711	
Bottom rail clip	r	22159	
Upper & Side cover clip	7.7	22193	
Cover for fixed position	.114	22194	
Interlock	J	22153	
Corner Cleat		09365	
Corner Cleat	L	01009	
Dust proof	Tatashiranhir	22414	
1.5mmCleat for proper Alignment of Frame	L	CA-20501	
2.0mmCleat for proper Alignment of Sash		CA-20503	
Double Fix Roller	A	GUXSDF0100	
BSA Automatic lock		GUXBSA0100	
Standard Operating Handle		GUXPCM0100	
Aluminium Locking Plate	TER	GUXGAV0100	
DUO Hook with Template anti Device System		GUXDUO	



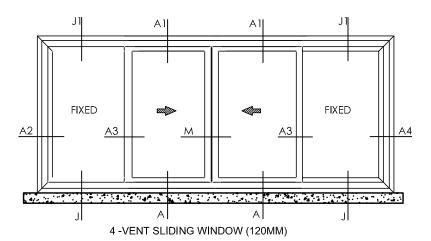


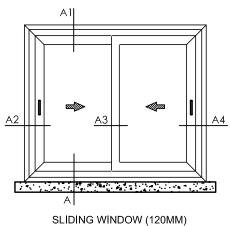


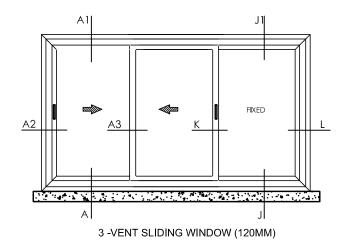
ASSEMBLY DRAWINGS

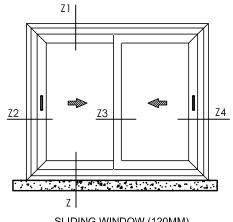


Sections

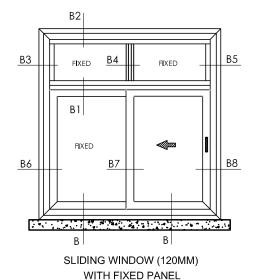


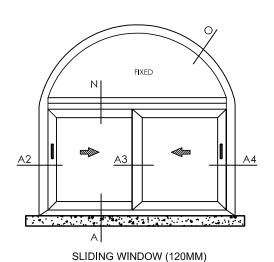






SLIDING WINDOW (120MM) FLY SCREEN OUT SIDE

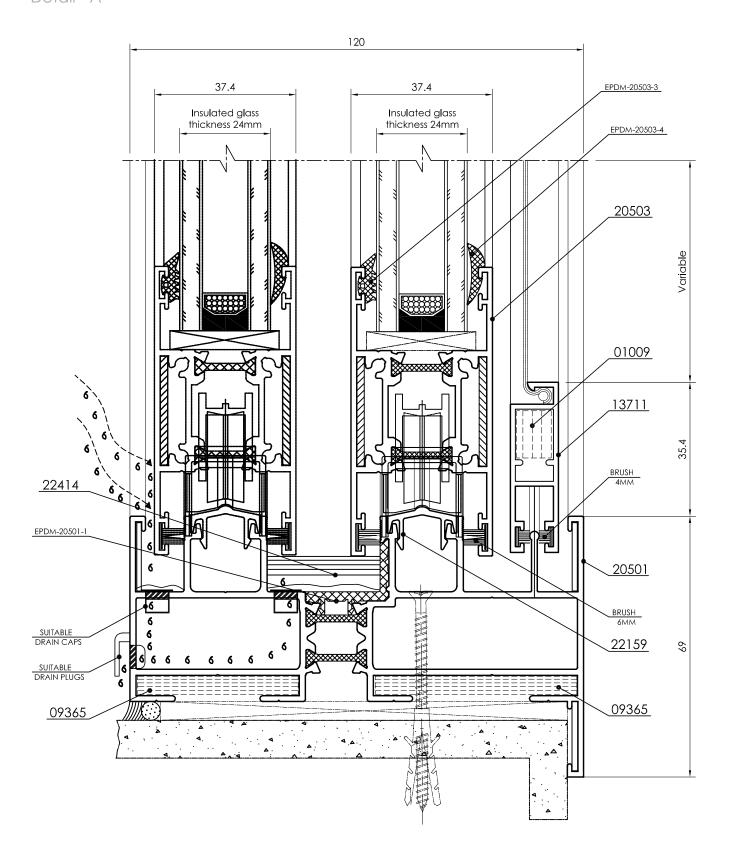




WITH FIXED ARCH PANEL

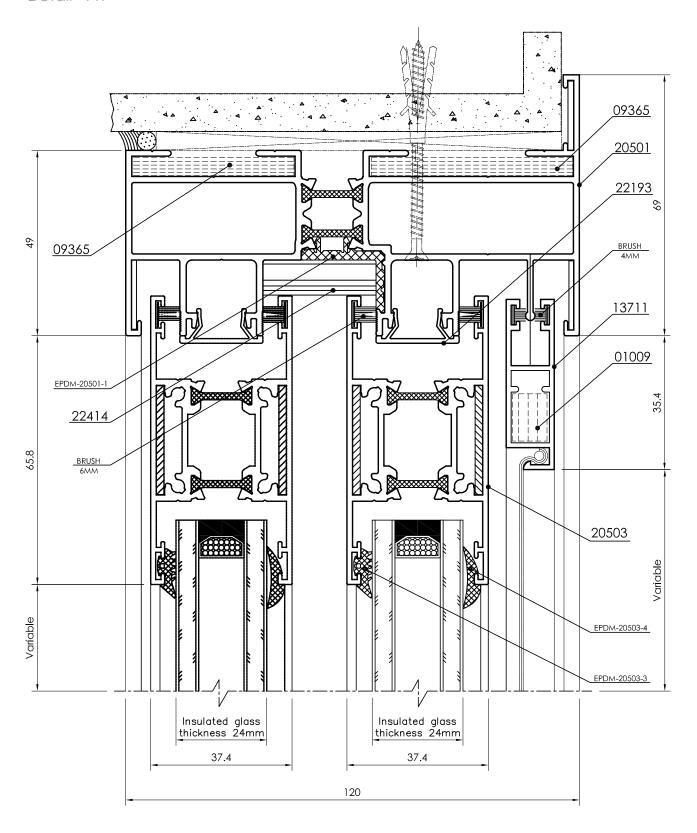
الخليج للسحب Gulf Extrusions

Bottom Section



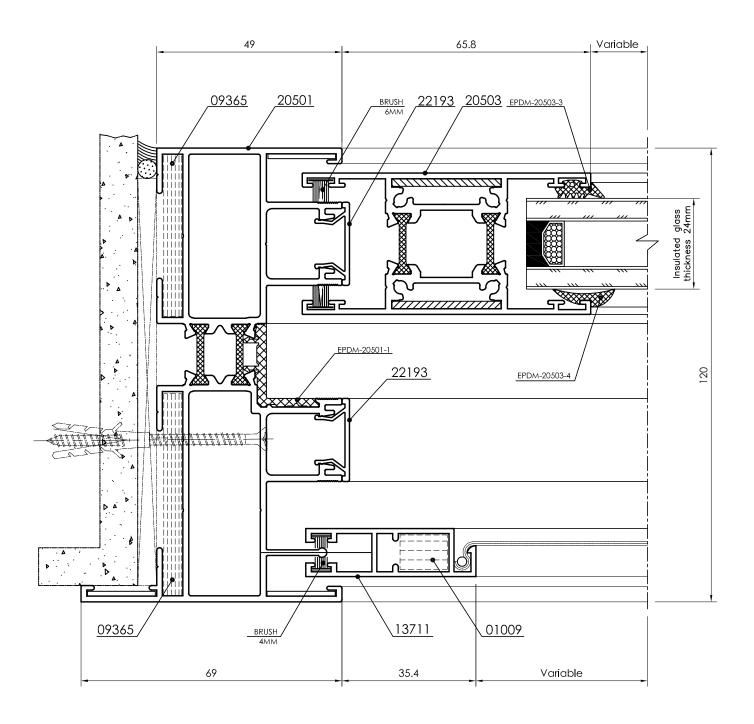


Top Section



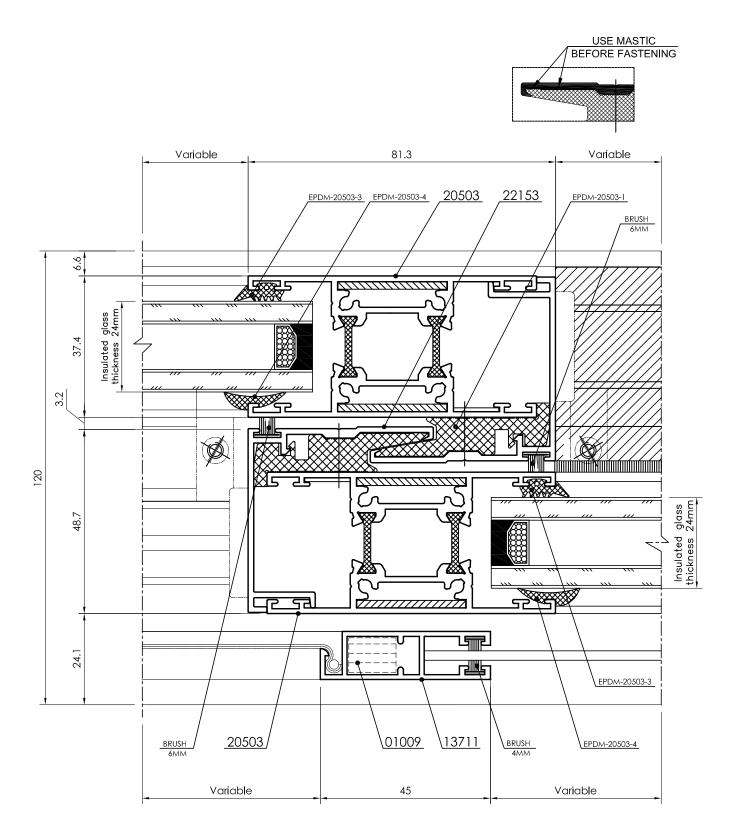


Left Section



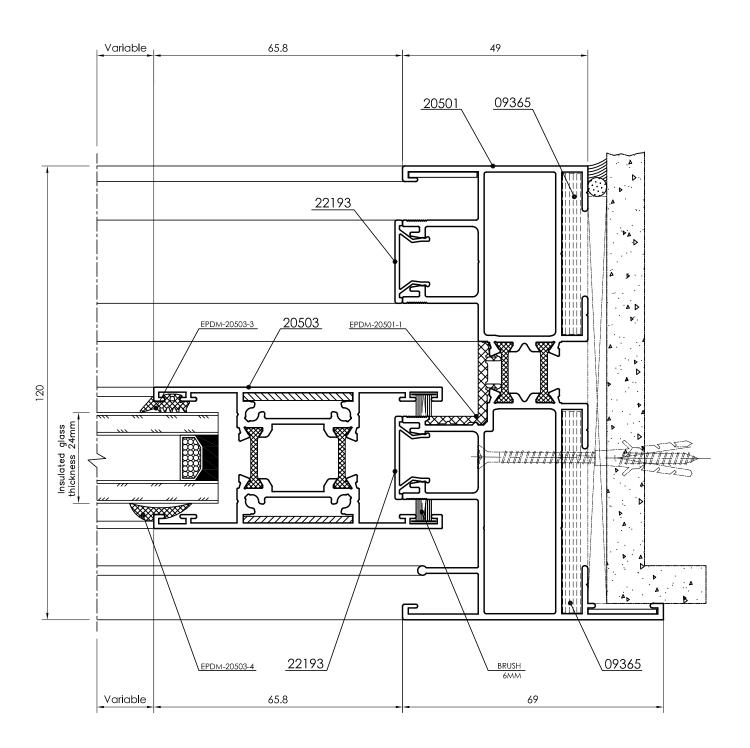


Interlock Section



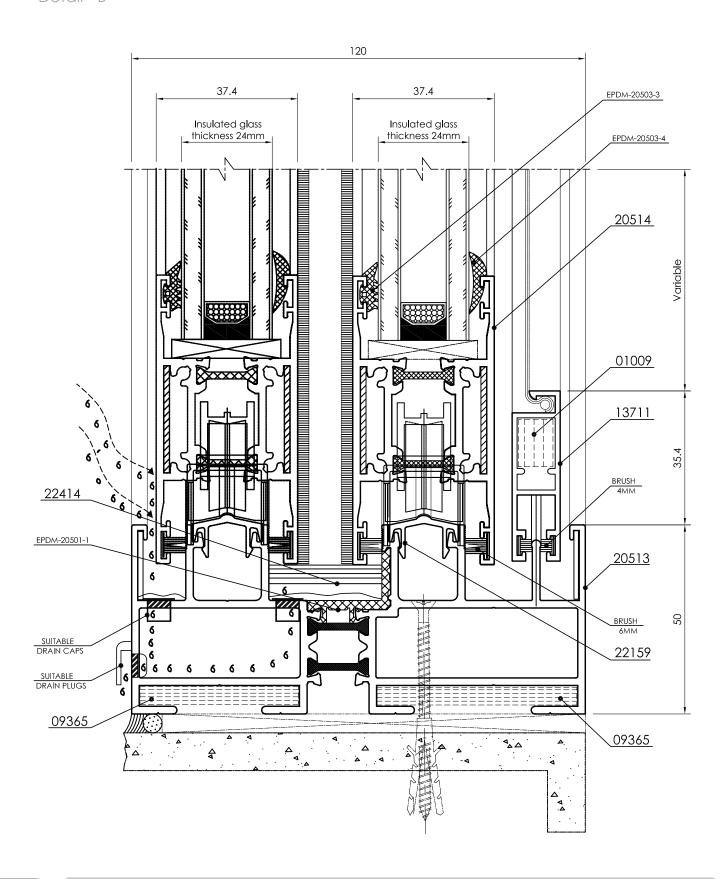


Right Section



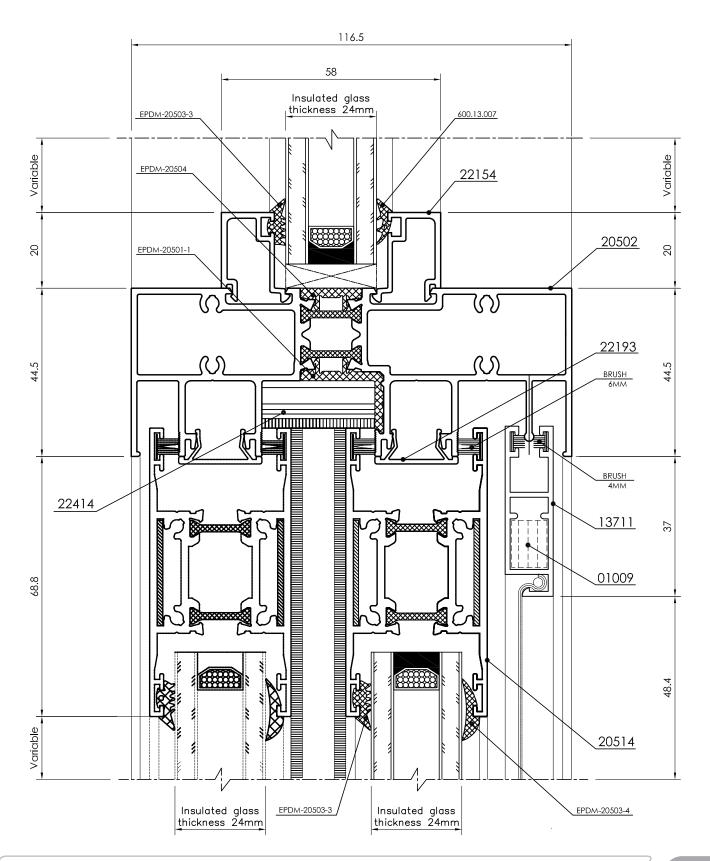


Bottom Section



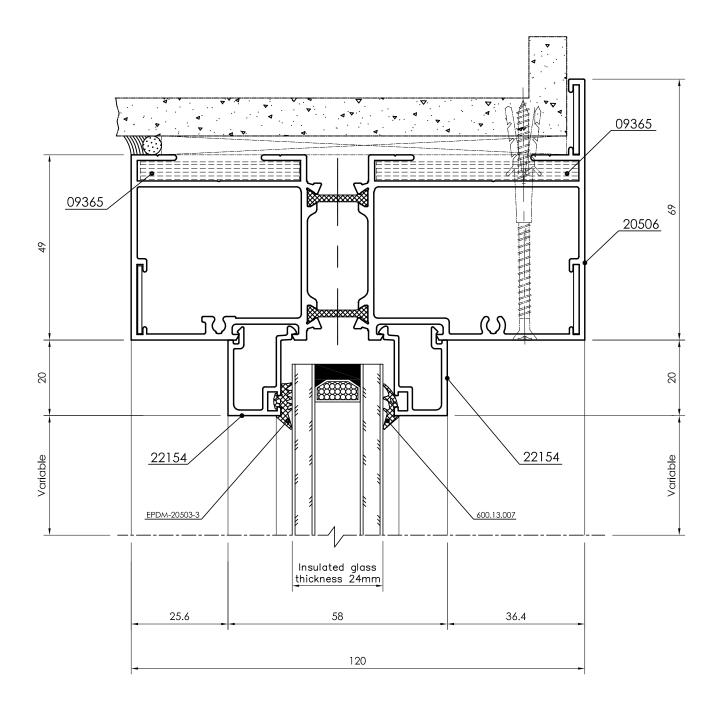


Middle Section



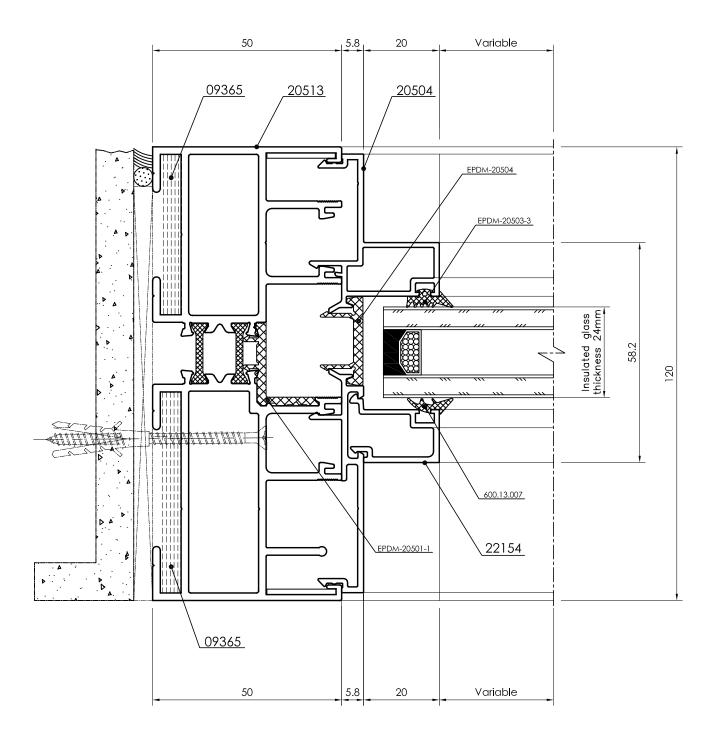


Top Section



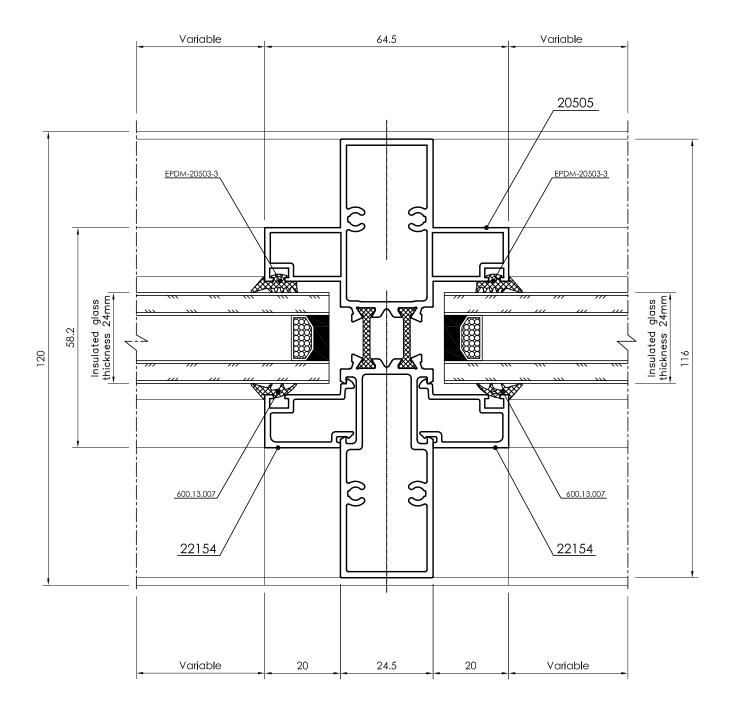


Left Fixed Section



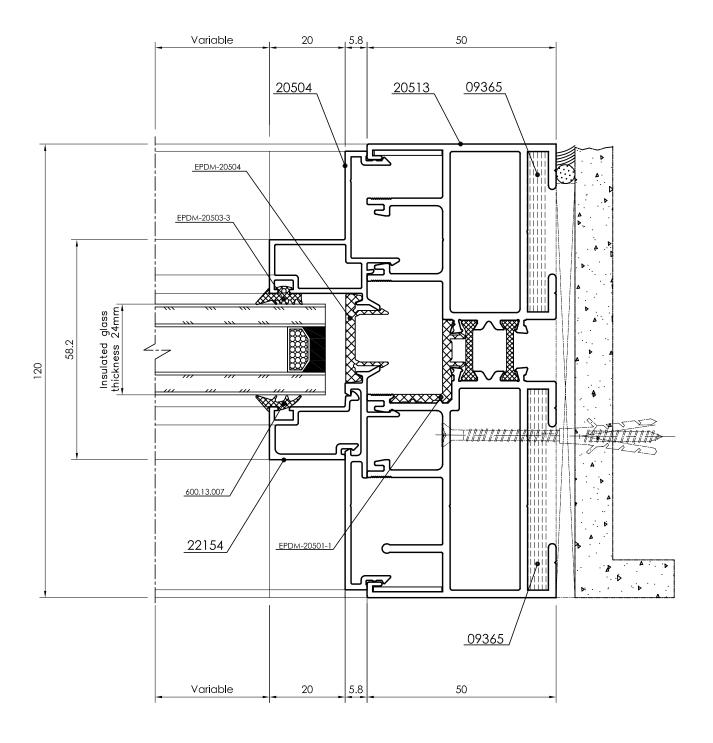


Mullion Section for fixed top



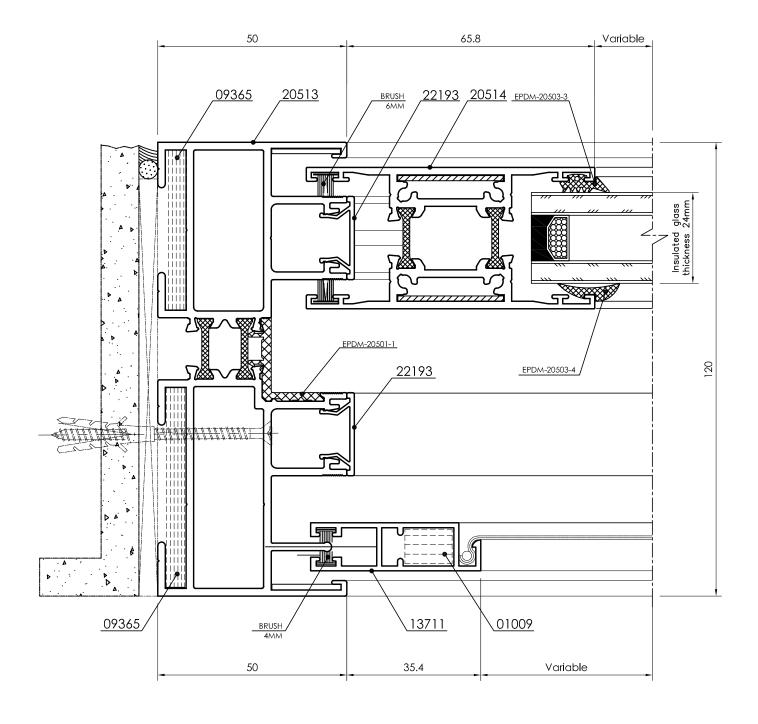


Right Fixed Section



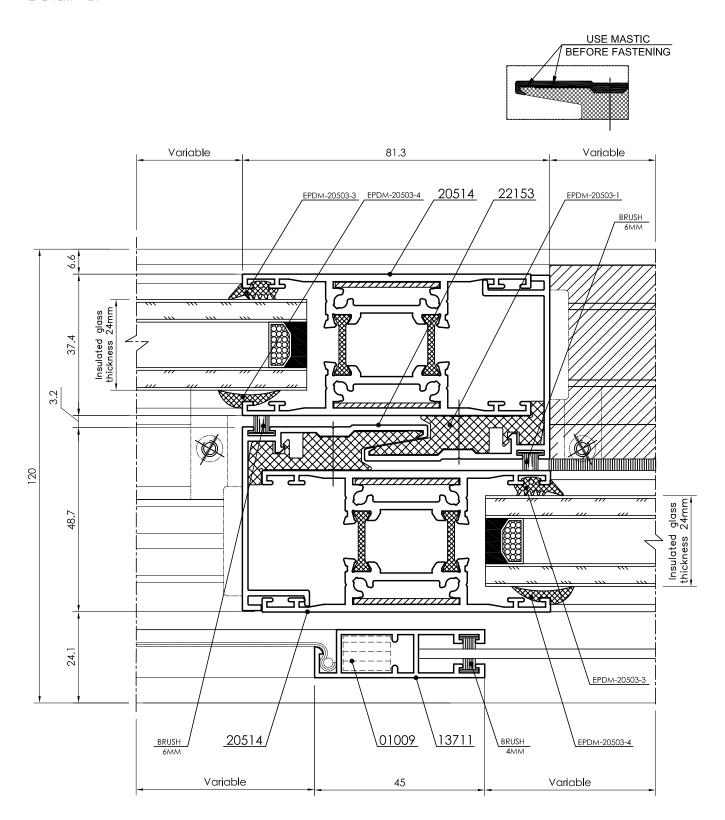


Interlock Section



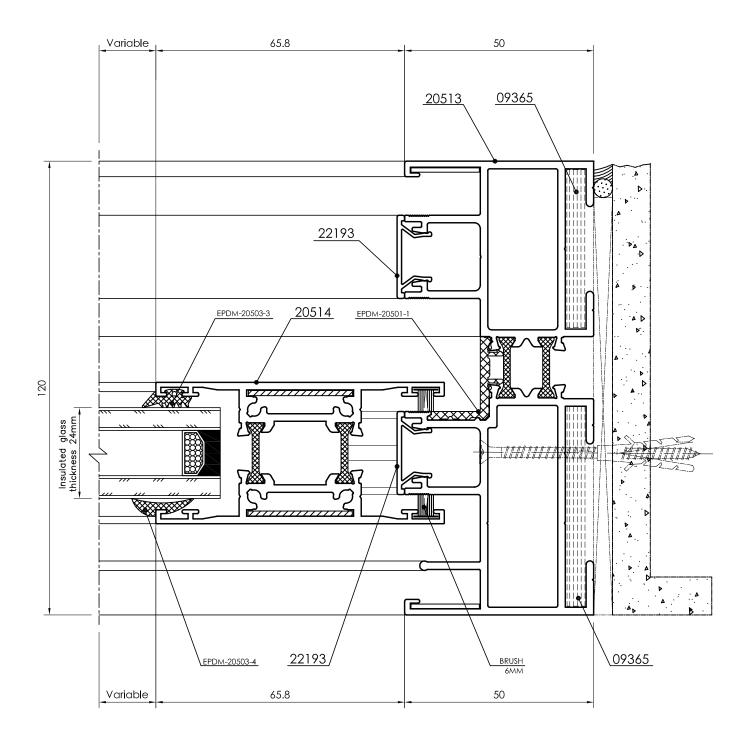


Interlock Section





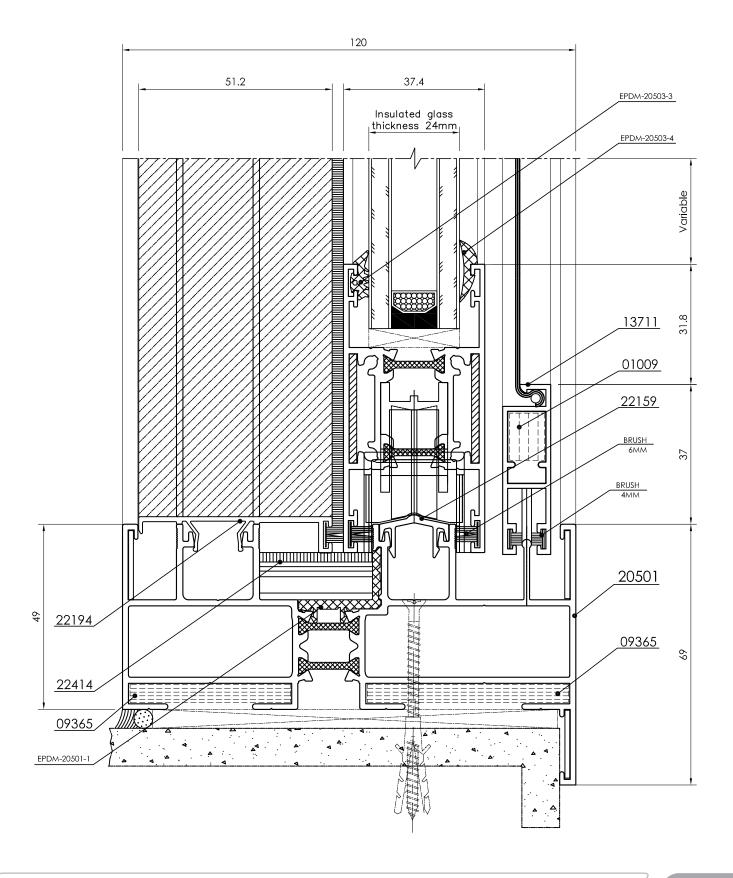
Right Section





Bottom Section

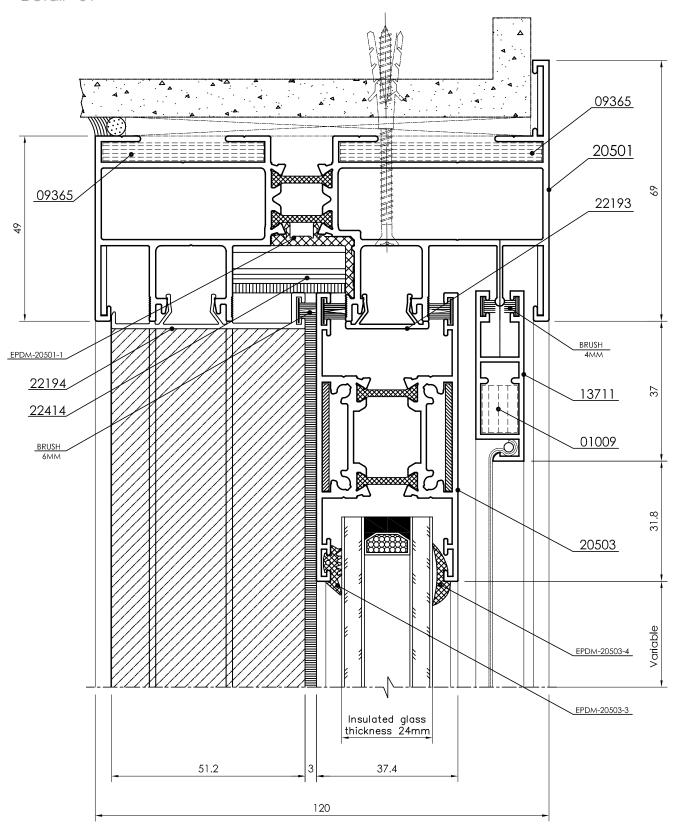
Detail - J





Top Section

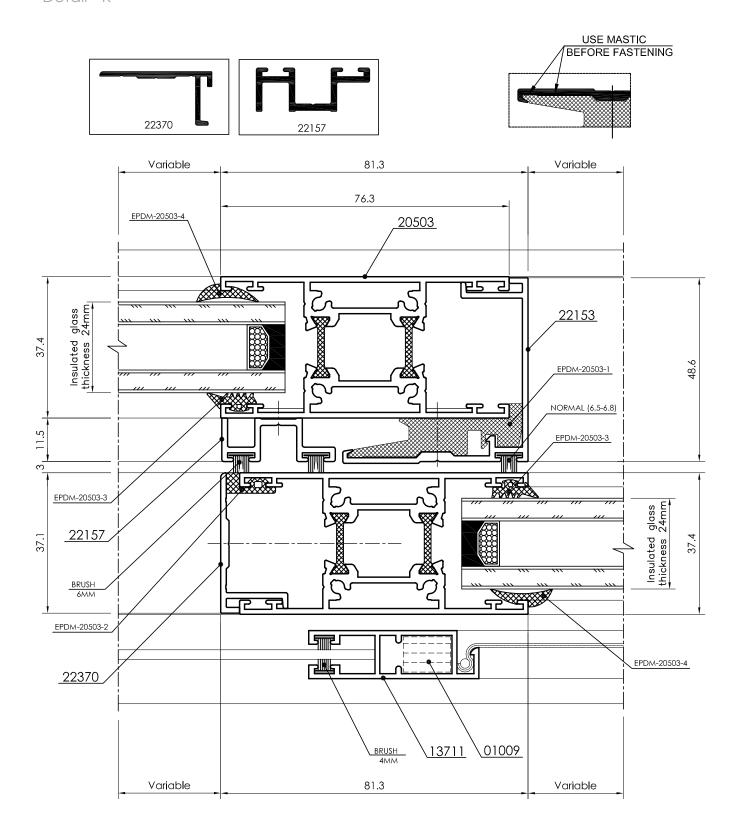
Detail - J1





Interlock Section

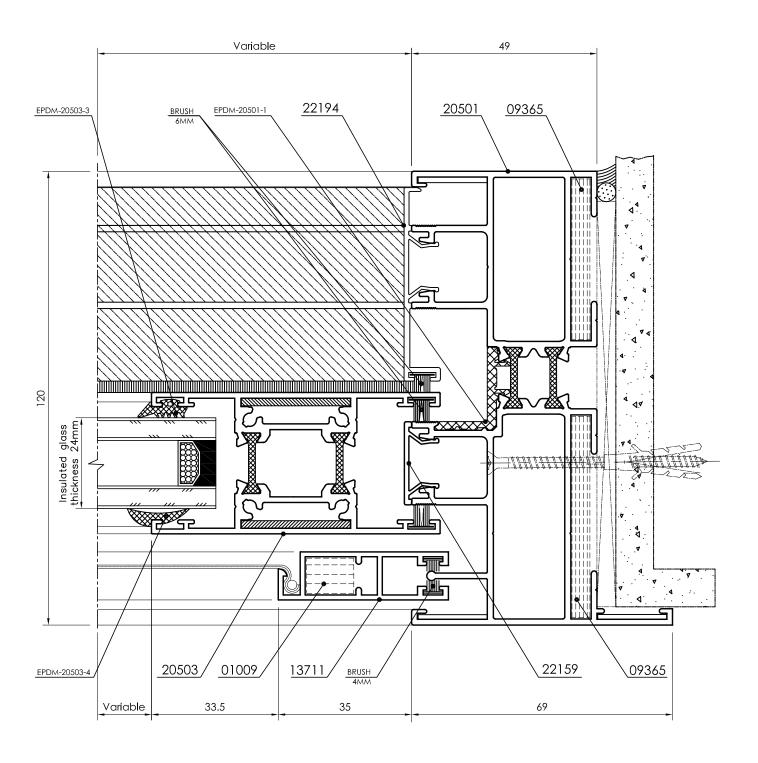
Detail - K





Right Section

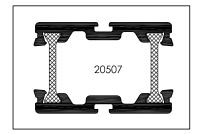
Detail - L

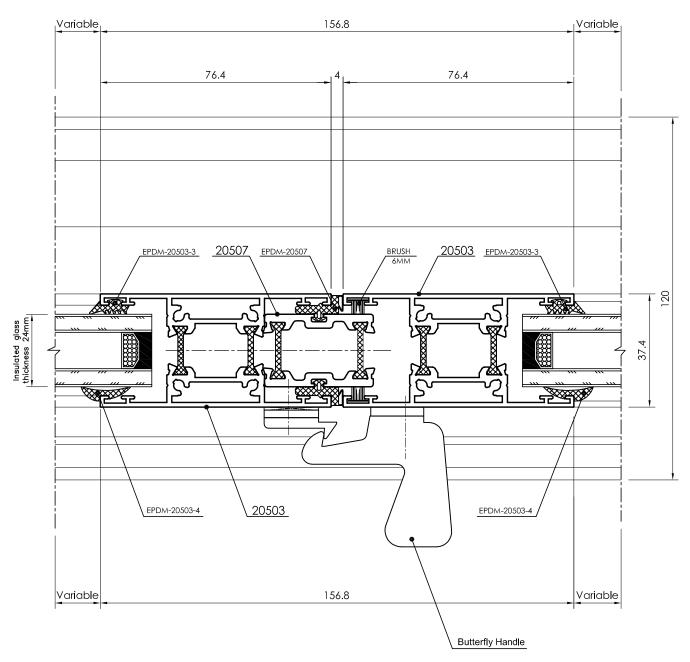




4 Vents Mid Section

Detail - M

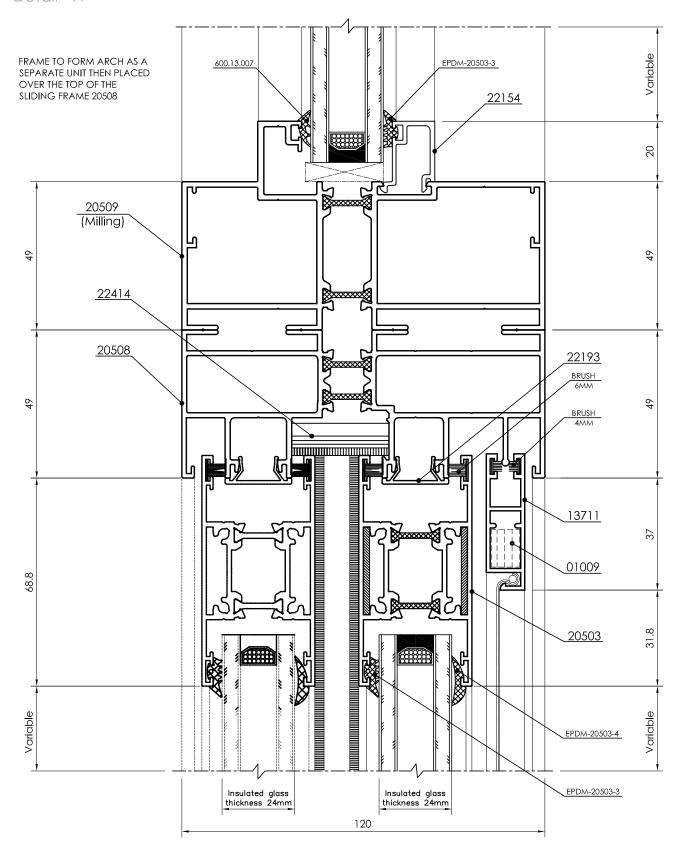






Arch Section

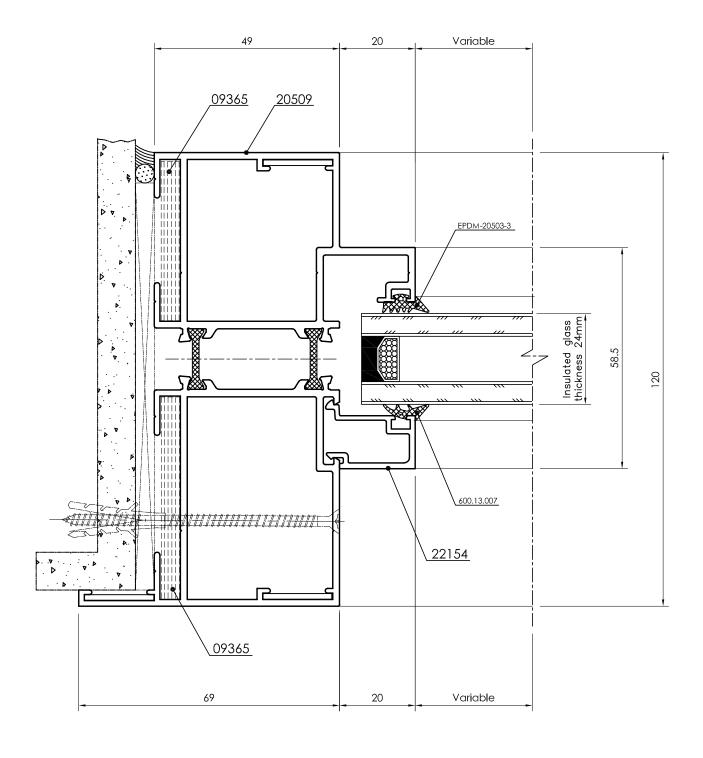
Detail - N





Arch Section

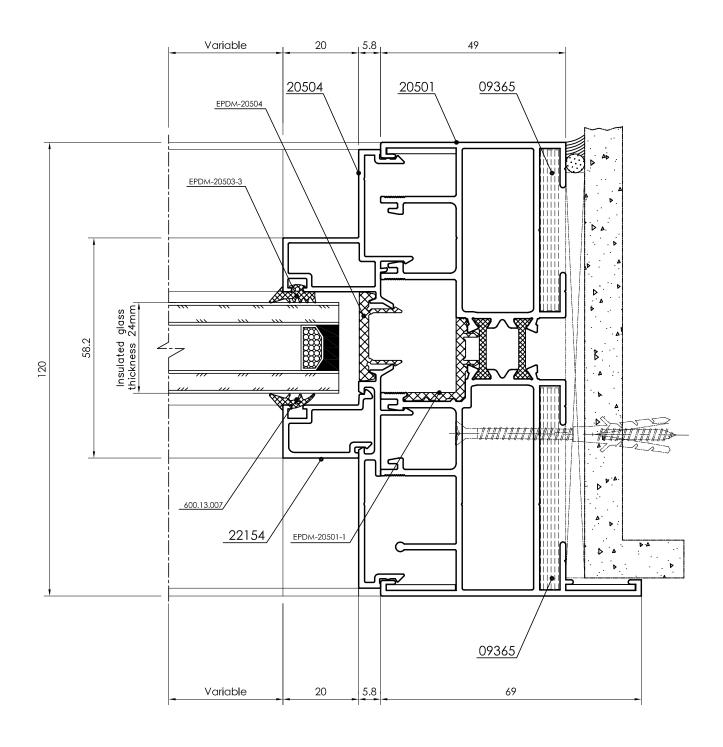
Option - 1 Detail - O





Right Section

Option - 2 Detail - O

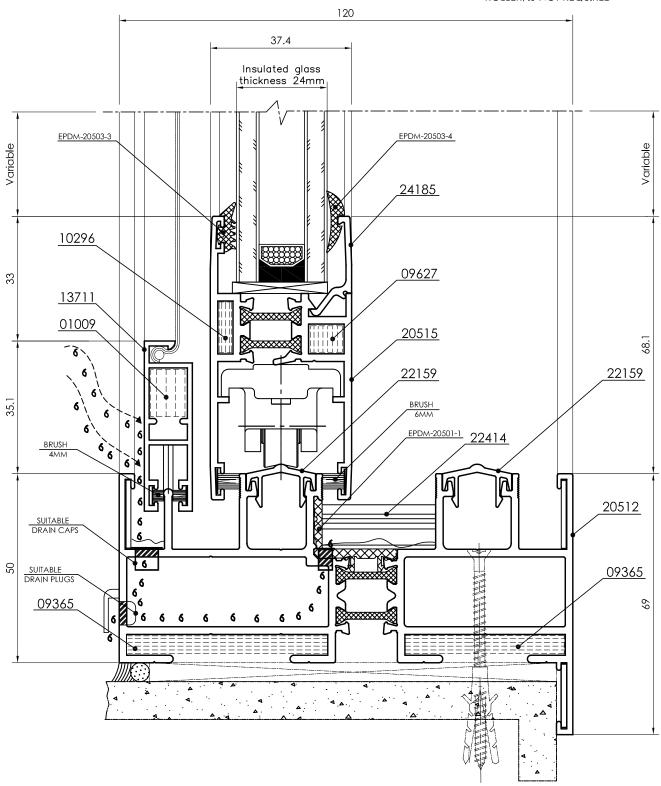




Botttom Section

Flyscreen Outside Detail - Z

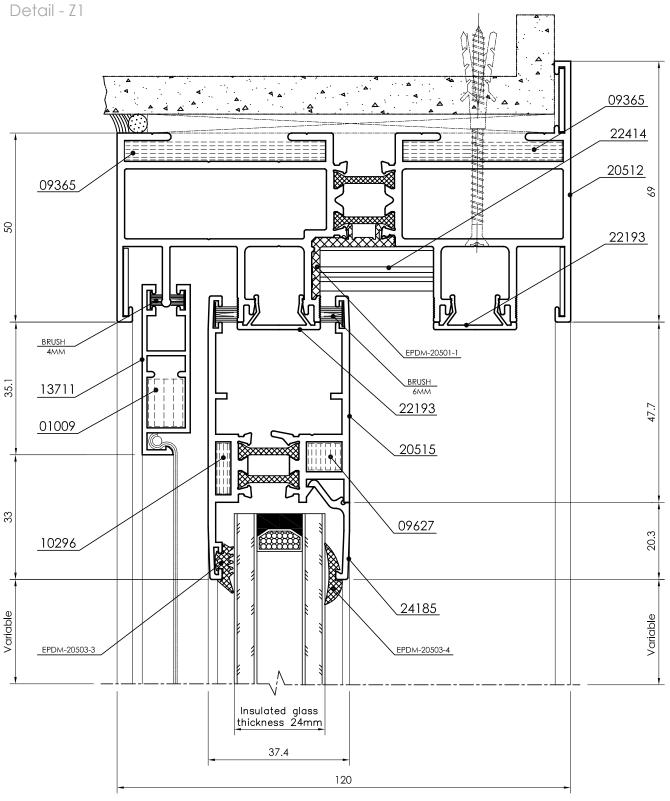
IN THIS OPTION MILLING THE THERMAL STRIP TO ADD THE ROLLER, IS NOT REQUIRED





Top Section

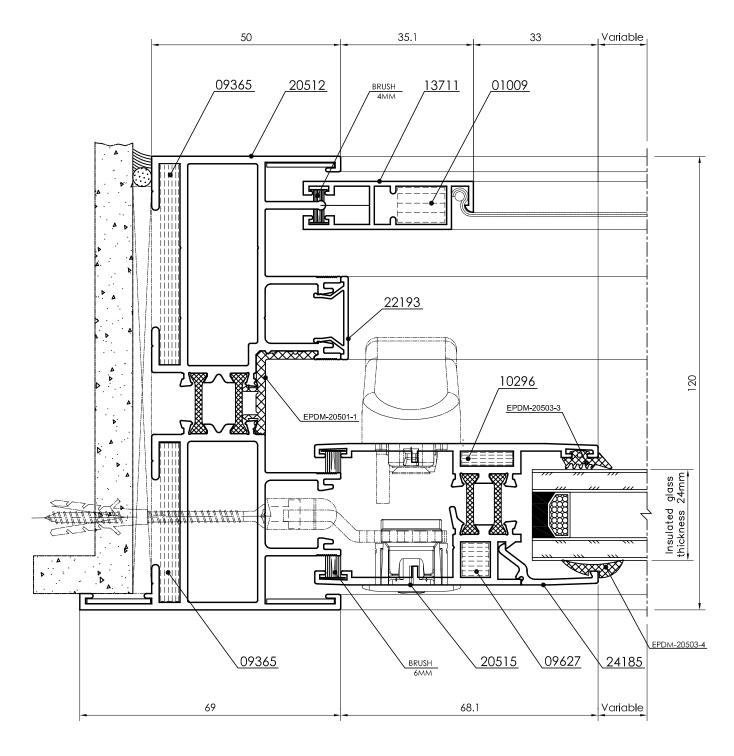
Flyscreen Outside





left Side Section

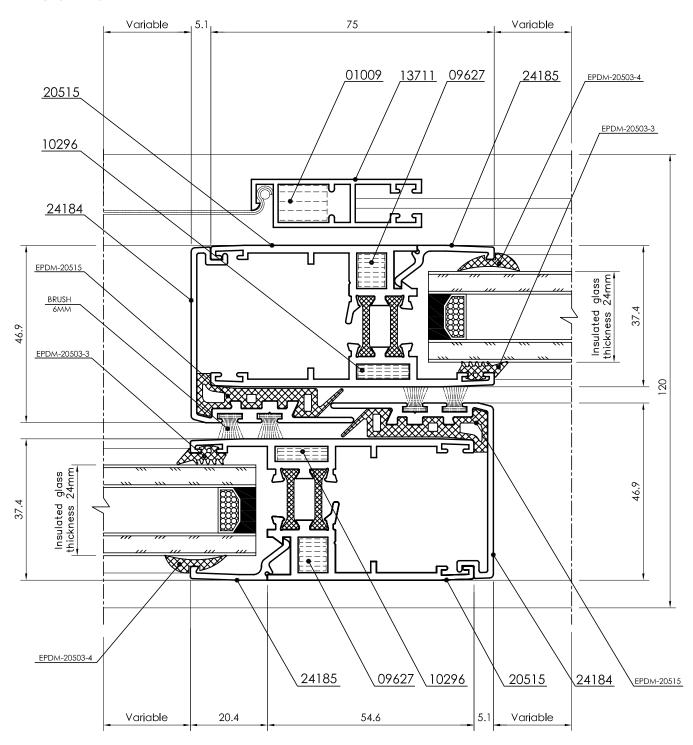
Flysreen Outsdide Detail - Z2





Interlock Section

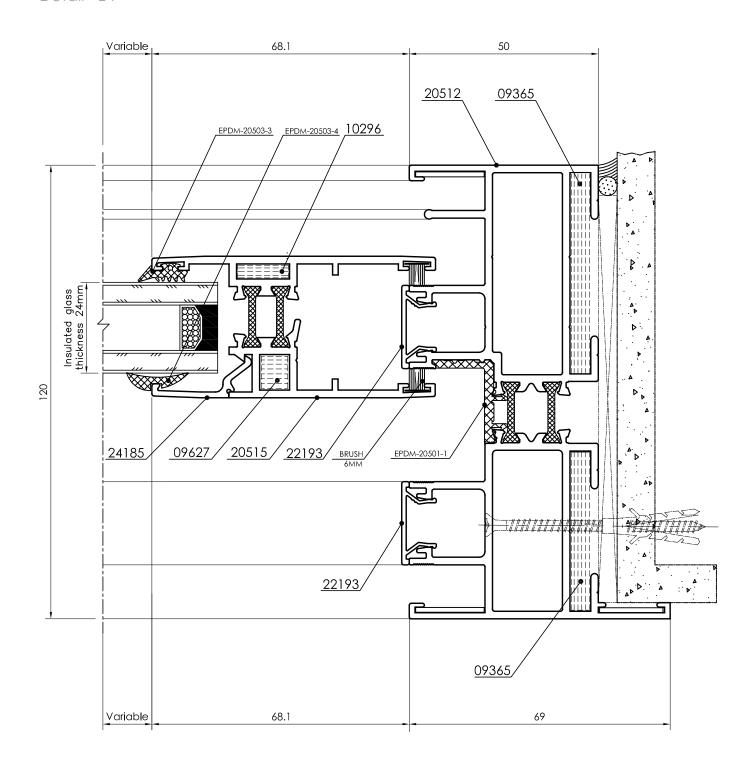
Flyscreen Outside Detail - Z3



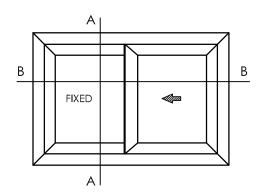


Right Side Section

Flyscreen Outside Detail - Z4

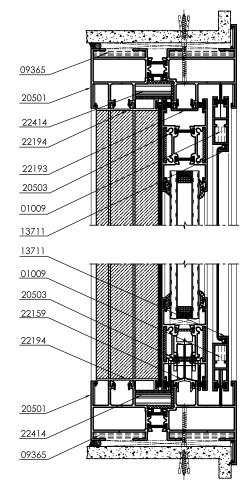




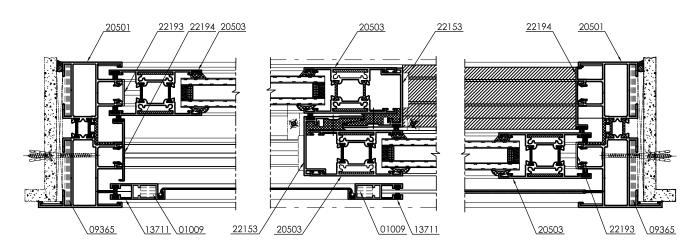


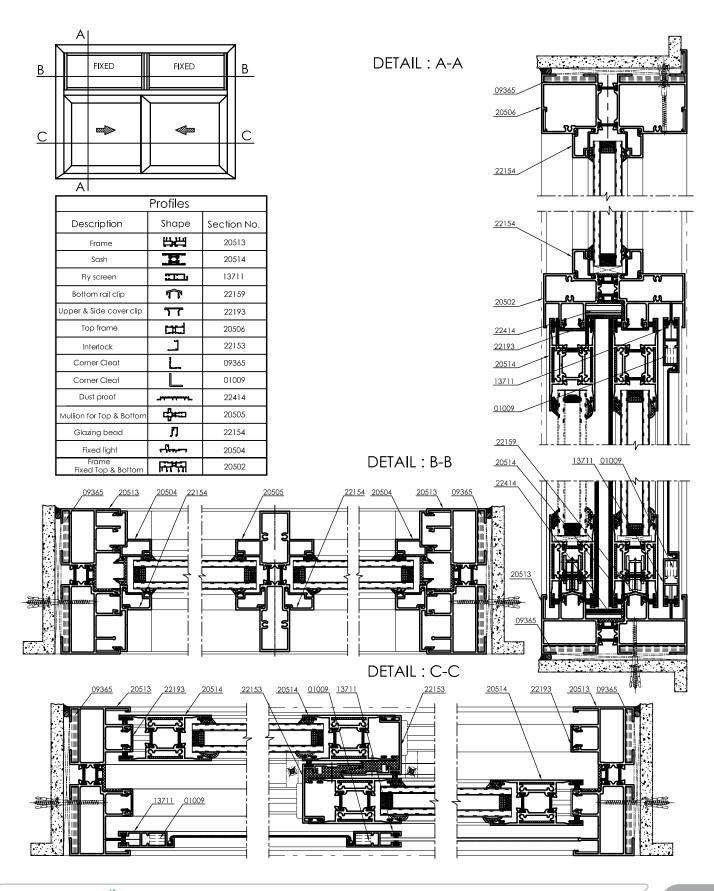
Profiles				
Description	Shape	Section No.		
Frame	쁘끡	20501		
SASH	囯	20503		
Fly Screen Frame	====1	13711		
Bottom rail clip	Î	22159		
Upper & Side cover c i p	77	22193		
Cover for fixed position	77.	22194		
Interlock	7]	22153		
Corner Cleat	L	09365		
Corner Cleat	L	01009		
Dust proof	_17~7Y_	22414		

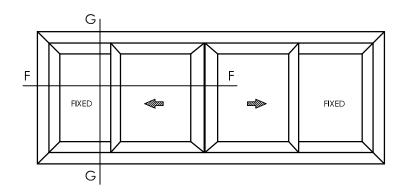
DETAIL: A-A



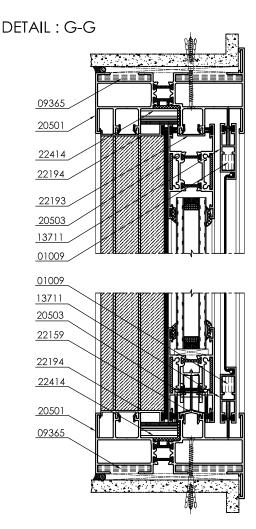
DETAIL: B-B



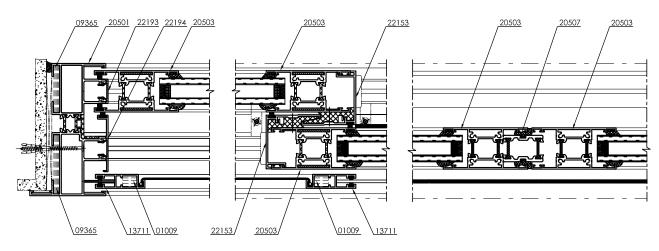


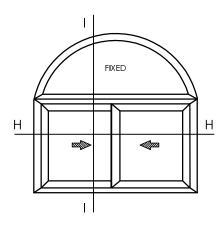


Profiles		
Description	Shape	Section No.
Frame	₽ Щ	20501
Sash	耳	20503
Fly screen frame		13711
Bottom rail clip	î	22159
Upper & Side cover c l ip	77	22193
Vertical sash connector	IJ	20507
Inte rl ock	L	22153
Cover for fix position	عہد.	22194
Corner Cleat	L	09365
Corner Cleat	L	01009
Dust proof	"h haddah f"	22414



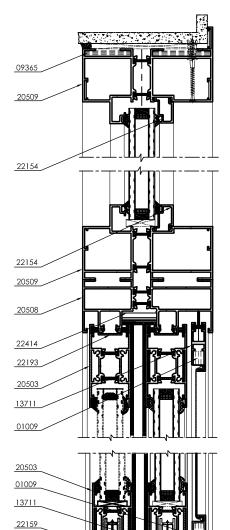
DETAIL: F-F





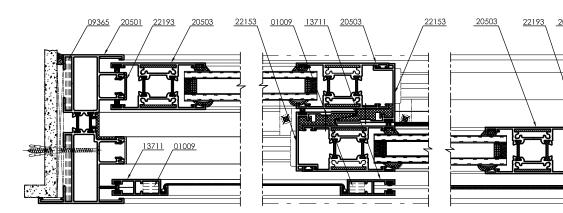
Profiles			
Description	Shape	Section No.	
Frame	EFEH	20501	
Sash	I	20503	
Fly screen	===1:1	13711	
Bottom rail clip	n	22159	
Upper & Side cover clip	77	22193	
Fitted profile	IJ	20507	
Arch frame	CHC)	20509	
Fixed l ight		20504	
Door frame	HH.	20508	
Glazing bead	IJ	22154	
Inte rl ock		22153	
Corner Cleat	L	09365	
Corner Cleat	L	01009	
Dust proof	Thurburt	22414	

DETAIL: I-I

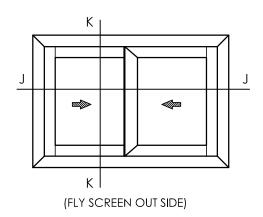


DETAIL: H-H

<u>20501</u> <u>09365</u>

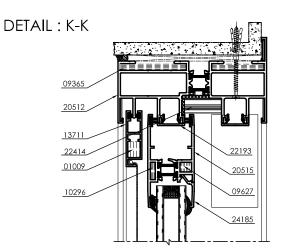


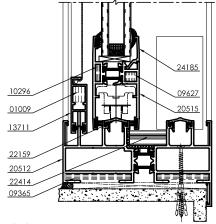




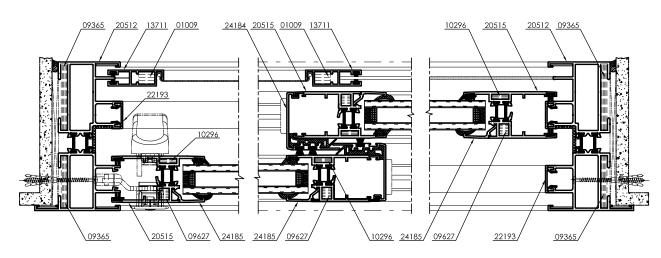
Profiles				
Description	Shape	Section No.		
Frame	뉴벅	20512		
Sash	T	20515		
Fly screen	====	13711		
Bottom rail clip	n	22159		
Upper & Side cover c li p	77	22193		
Inter l ock	1	24184		
Corner Cleat	-	10296		
Corner Cleat	_	09627		
Corner Cleat	L	09365		
Corner Cleat		01009		
Dust proof	Thether	22414		
Glazing bead	لر	24185		

IN THIS OPTION MILLING THE THERMAL STRIP TO ADD THE ROLLER, IS NOT REQUIRED





DETAIL: J-J

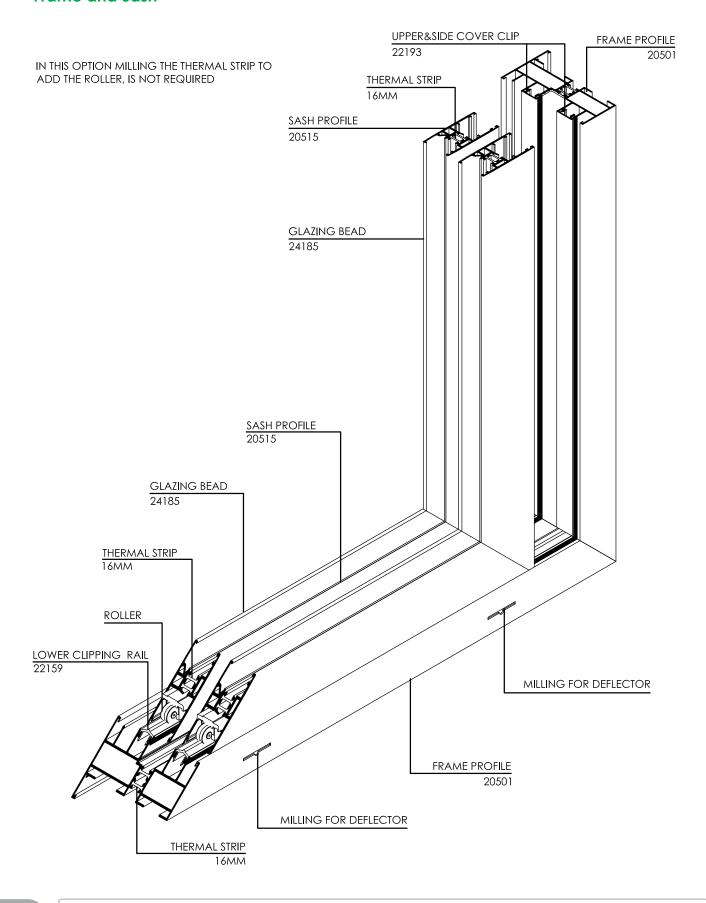




3D SECTIONS

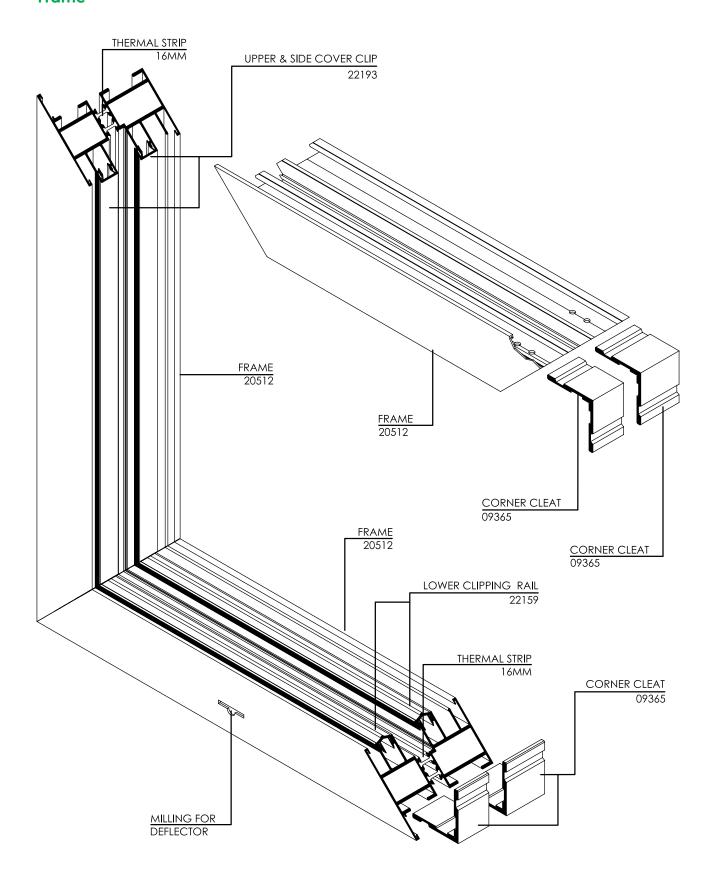


Frame and Sash



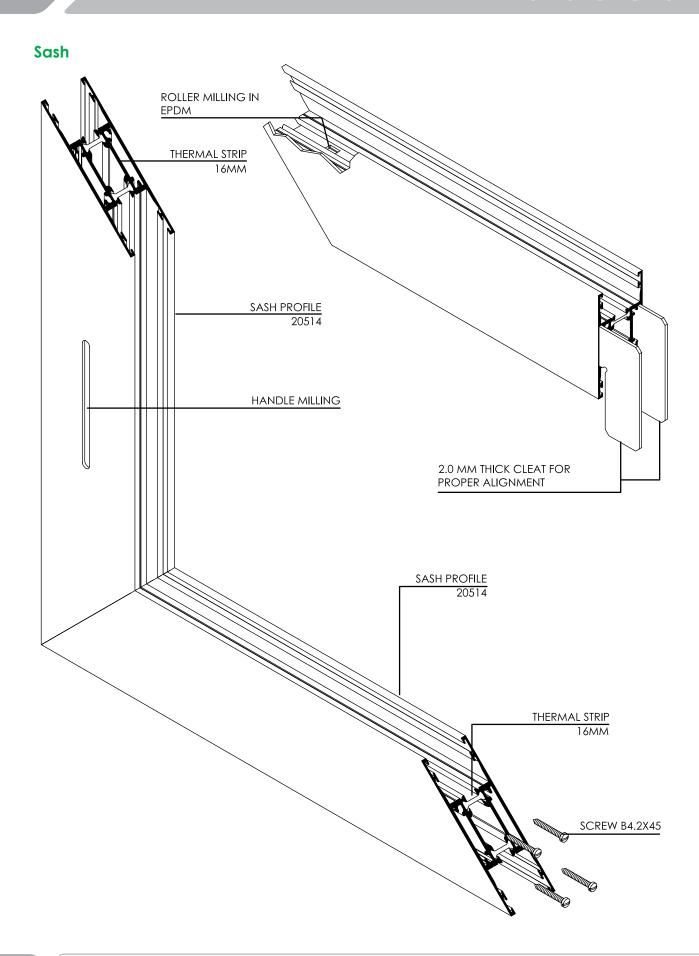


Frame





120-I





Sash Fabrication Instructions

SASH 3D ASSEMBLY DRAWINGS 2.0 mm thick cleat for proper alignment of sash profile 20503 Sash Profile B-4.2X32 20503 2.0 mm thick cleat for proper alignment of sash profile 20503 Sash Profile 20503 B- 4.2X32 EPDM rubber for interlock 20503 & 22153 B- 4.2X32 Sash Profile Top end 20503 cap B- 4.2X32 B- 4.2X19 Sash Profile 20503 2.0 mm thick angle cleat for proper alignment of 22153 sash profile 20503 B- 4.2X19 Needle bearing roller housed in an aluminium channel to be used at the bottom of the sash profile 20503 Bottom end Roller fixing screw M5X20 cap B- 4.2X32 Needle bearing roller housed in an aluminium B- 4.2X19 channel to be used at the bottom of the sash profile 2.0 mm thick cleat for 20503 proper alignment of sash Roller fixing screw M5X20 profile 20503



Frame Fabrication Instructions

FRAME 3D ASSEMBLY DRAWINGS

