Sliding TB 105mm



09-2018-V.1

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Sliding TB 105mm

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 30,000 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.



105-B

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



- 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:

DIN

- 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



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ESMA

SASO

Health & Safety:

OHSAS 18001 (Certification for occupational health & safety management)

Management:

- ISO 9001 (Quality Management System)
- ISO/TS 16949:2009 (Management System)

Environment:

ISO 14001 (Environment Management System)

(R)

- Membership in International Organization:
- AAC member (Aluminium Anodizers Council USA)
- AEC member (Aluminum Extruders Council USA)
- DIN EN 15088



CHEMICAL COMPOSTIONS

ALLOY 6005A

Element	Minimum	Maximum	
Si	0.50	0.90	
Fe	-	0.35	
Cu	-	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

ALLOY 6082

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	
Cu	-	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		

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		

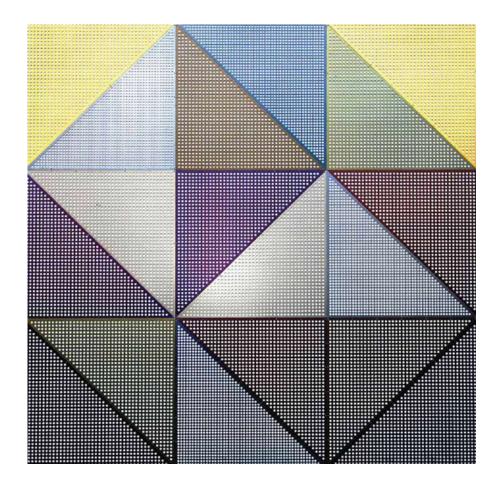


ANODIZING

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 01.01.2017). Architectural anodizing is one of the four types of anodizing covered by the Specifications.

Date of issue of the licence: Period of validity of the licence:

Zurich, 23 November 2017

QUALANOD

José Arenas President

10.03.2000 until 31.12.2018

CERTIFICATION BODY

Josef Schoppig AC-Fiduciaire SA





Phone: +41 (0)43 305 09 70 E-Mail: j.schoppig@actreu.ch



Fax: +41 (0)43 305 09 98 Website: www.qualanod.net Mailing address: QUALANOD, P.O. Box 1507, CH-8027 Zurich

Domicile: QUALANOD c/o AC-Fiduciaire SA (certification body) Tödistrasse 42, CH-8002 Zurich



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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:

Period of validity of the licence:

15.03.2000

until 31.12.2018

Zurich, 31 October 2017

QUALICOAT

M.C. tanam

Mohammed C. Panam President

CERTIFICATION BODY

Josef Schoppig AC-Fiduciaire SA



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 www.qualicoat.net

INTRODUCTION TO THE SYSTEM

Sliding TB105mm:

105-C

The Sliding Thermal Break 105mm is a special insulated system designed for heavy commercial use. The results have been impressive and apply to energy conservation, sound reduction and water & dust proofing.

The Sliding Thermal Break 105mm with16mm fiberglass reinforced polyamide insulation and 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.

The System consists of a single frame and sash profile that will be used on all four sides. 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 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.



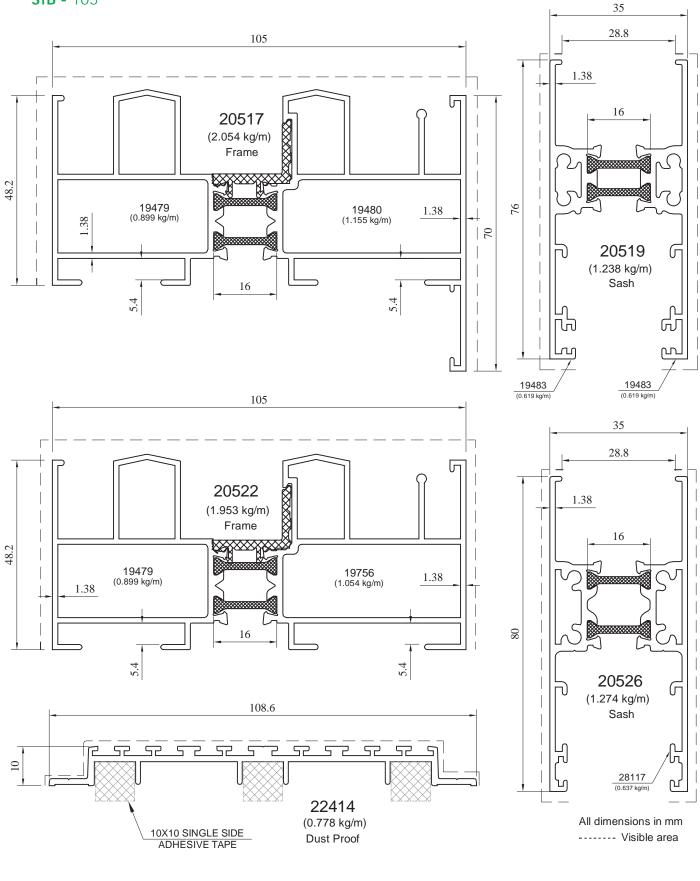




PROFILES



STB - 105

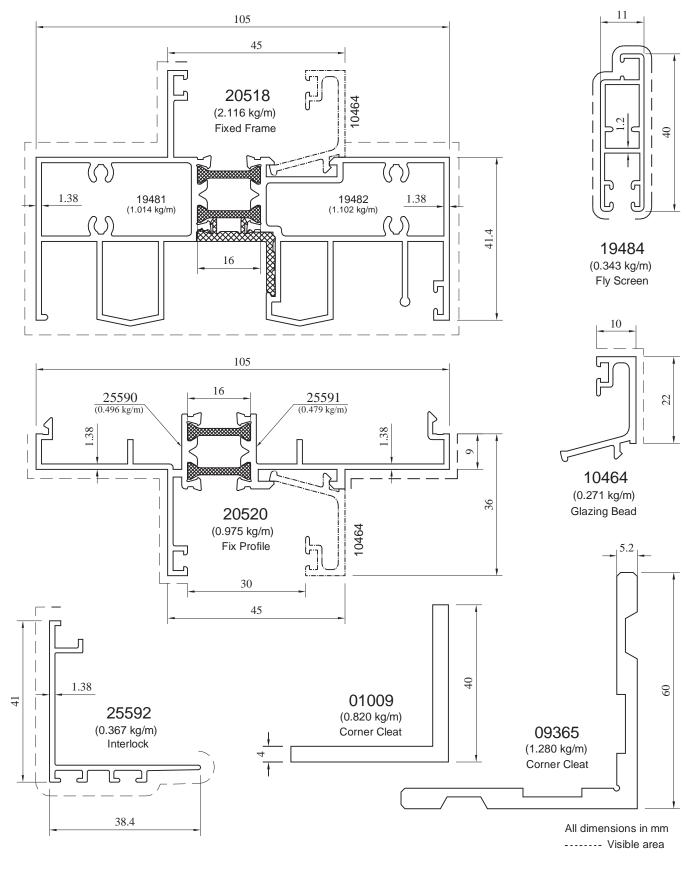




PROFILES



STB - 105



PROFILE LIST



105-E

PROFILE LIST

Profi Refere		hild ofile Profi	le Section	Page	Weig KG/N	ht IX ∕I cm⁴	IY cm⁴	WX cm ³	WY cm³
20517	19479 + 19480			2.0	54	20.601	90.693	3.781	21.137
20518	19481 + 19482			2.1	16	17.413	84.236	4.601	15.953
20519	19483 +19483		- 12	1.2	38	9.416	17.884	5.380	4.594
20520	25590 + 25591	╒ ┎╶╌╵ <mark>╣╶┲</mark> ╶╹	٦ ٦	0.9	75	2.780	28.505	0.988	5.117
19484		311-b	13	0.3	43	1.729	0.232	0.849	0.394
25592		[- 	13	0.3	67	2.403	1.657	0.869	0.578
10464		La La	13	0.2	71	0.812	0.254	0.597	0.186



PROFILE LIST

Profil Referen	e C nce Pr	hild ofile Profile Sect	ion	Page KG/	ght IX ′M cm⁴	IY cm⁴	WX cm ³	WY cm³
09365			13	1.280				
01009			13	0.820				
22414		_ ╎╹╎╹╹╿╹╎╹╹╎╹ ┧_	12	0.778				
20522	19479 + 19756		12	1.953	16.147	81.172	5.971	15.364
20526	28117 + 28117		12	1.274	19.070	9.535	4.581	5.448





ACCESSORIES



105-F

ACCESSORIES

Gasket/Accessories Reference	Section	Description	Unit
EPDM-20517		EPDM FILLER RUBBER FOR 20517 & 20518	Linear Meter
EPDM-INTERLOCK 20519	æł	EPDM RUBBER FOR INTERLOCK	Linear Meter
EPDM-20519		EPDM SEALING U-TYPE RUBBER TO BE USED WITH SASH 20519 TO HOLD 24MM (DOUBLE GLAZED UNIT)	Linear Meter
EPDM-600.13.007	Þ	EPDM SEALING RUBBER TO BE USED WITH GLAZING BEAD -INWARD SIDE TO HOLD 24MM (DOUBLE GLAZED UNIT)	Linear Meter
EPDM-20503-3	Ŕ	EPDM SEALING RUBBER TO BE USED WITH FIXED FRAME -OUTWARD SIDE TO HOLD 24MM (DOUBLE GLAZED UNIT)	Linear Meter
BRUSH-3mm	<u></u>	3.0mm NORMAL BRUSH FOR SASH & INTERLOCK	Linear Meter
Handle 20519		INSIDE HANDLE + COUPLING KIT + NIB & COUNTER PLATE	Piece
Roller 20517		ONE WHEEL FIXED CARRIAGE	Piece
Roller 20517-1		two wheel adjustable Carriage	Piece

ACCESSORIES

Gasket/Accessories Reference	Section	Section Description	
CA-20517	50 	1.5mm THICK CLEAT FOR PROPER ALIGNMENT OF FRAME PROFILES 20517	Piece
CA-20519	60 1 16.2	1.75mm THICK CLEAT FOR PROPER ALIGNMENT OF SASH PROFILES 20519	Piece



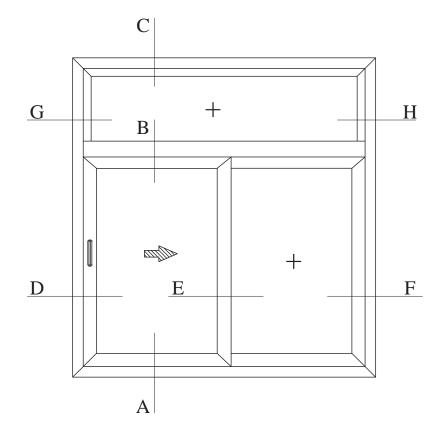


ASSEMBLY DRAWINGS



Assembly drawings

Sliding Window (105mm) with Fixed Panel



All dimensions in cross sections are shown in mm Profile are not necessarily shown to scale

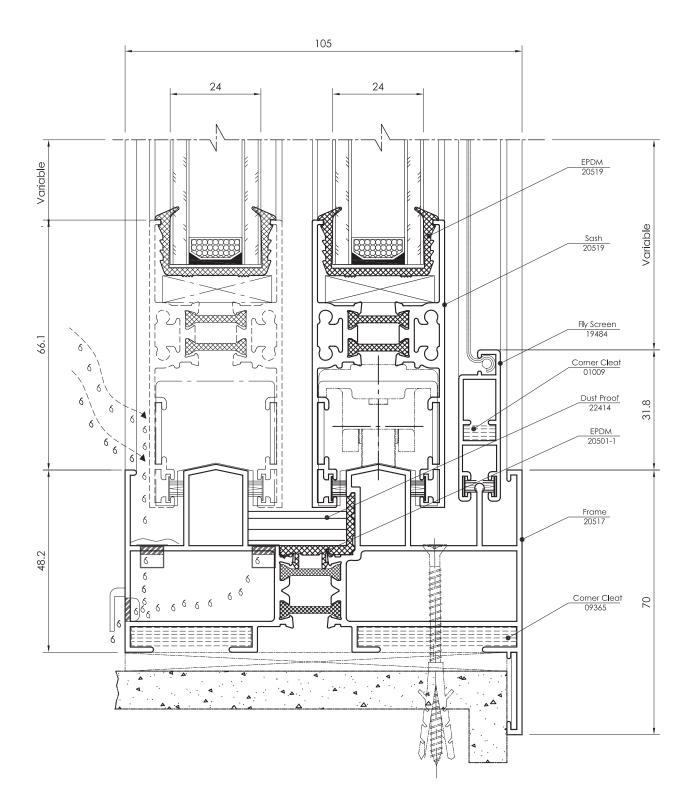


ASSEMBLY DRAWINGS

105-G

STB - 105

Detail - A

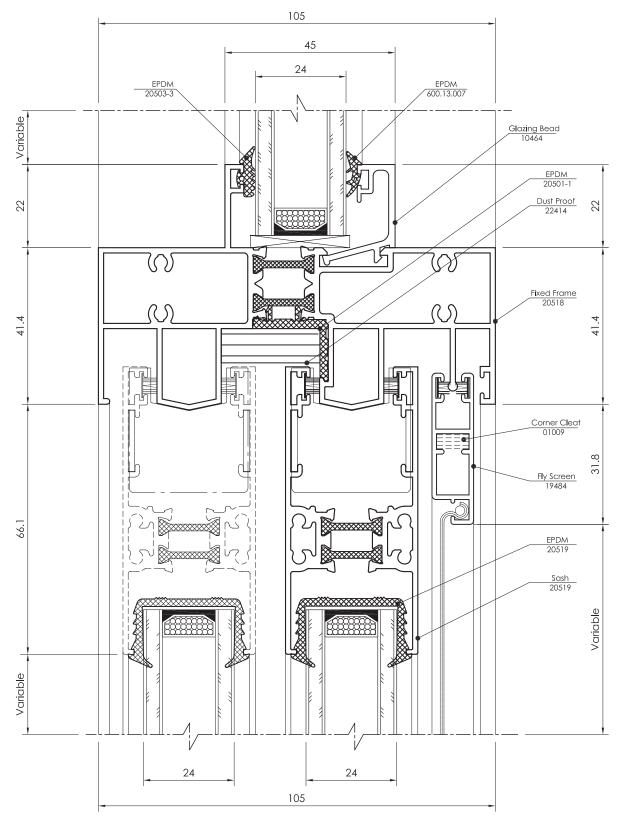


All dimensions in mm



STB - 105

Detail - B



All dimensions in mm Visible area____

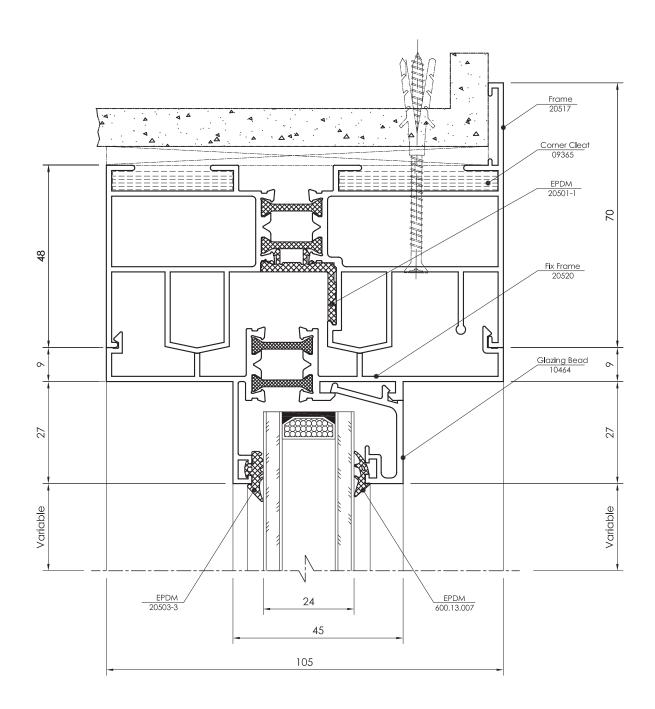


ASSEMBLY DRAWINGS

105-G

STB - 105

Detail - C



All dimensions in mm

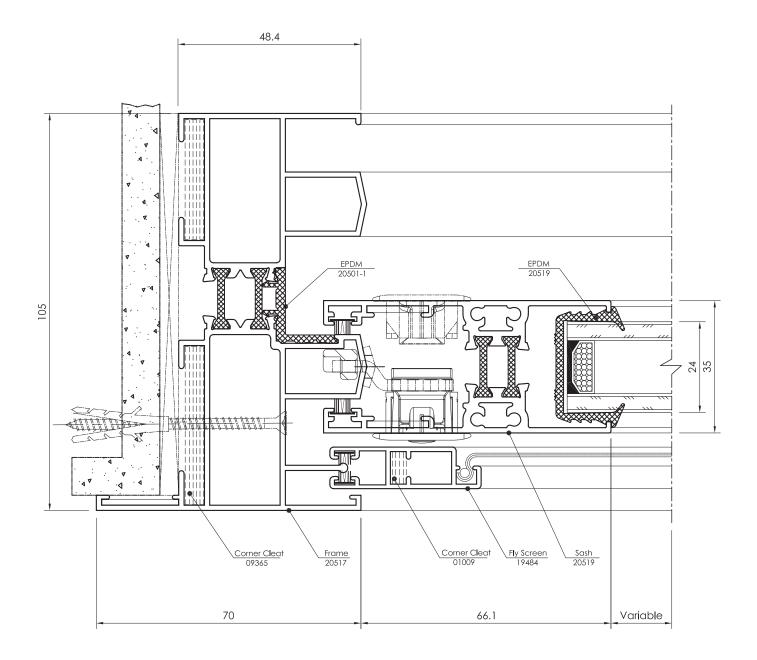


105-G

Assembly drawings

STB - 105

Detail - D



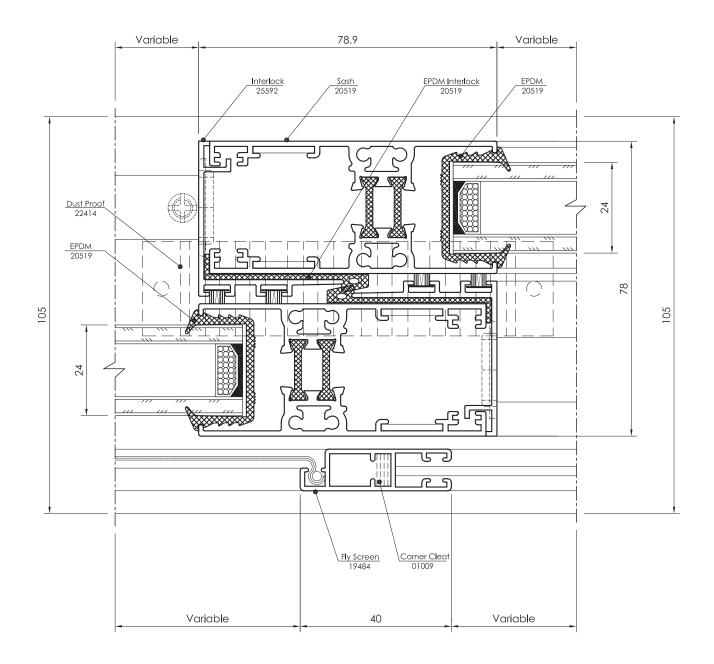
All dimensions in mm Visible area____



ASSEMBLY DRAWINGS

STB - 105

Detail - E



All dimensions in mm

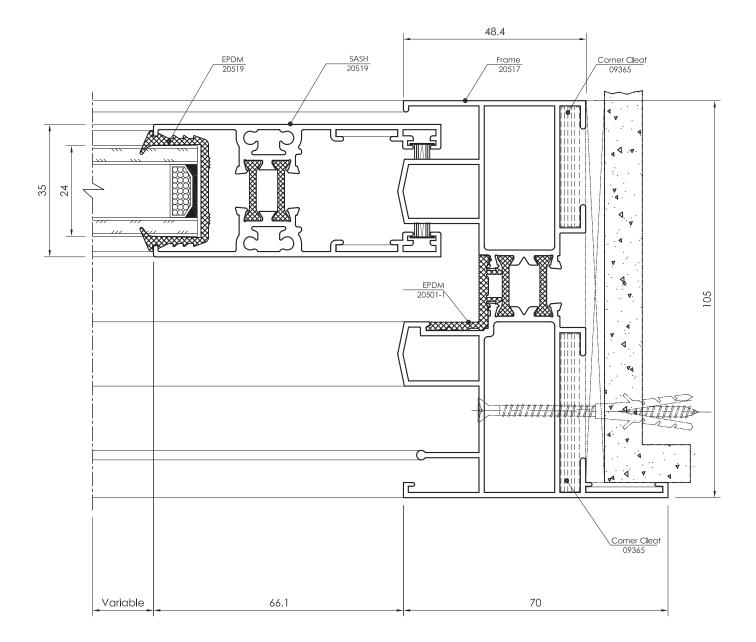


Assembly drawings



STB - 105

Detail - F



All dimensions in mm Visible area____

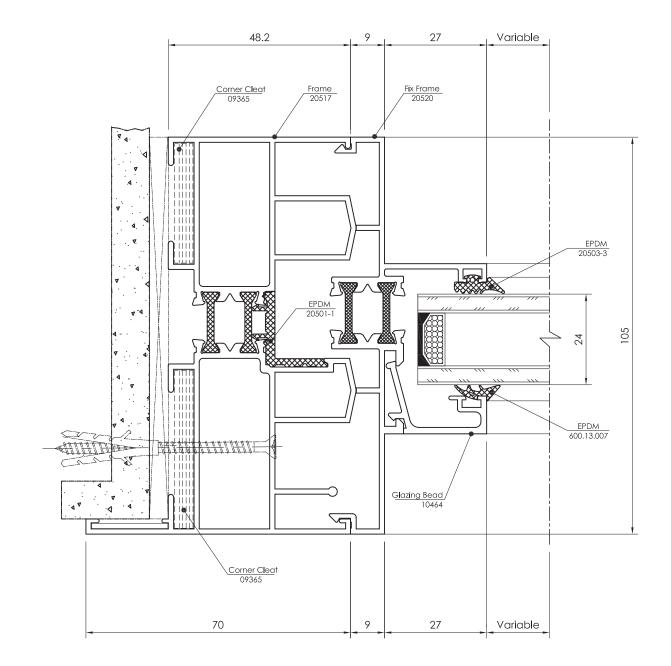


ASSEMBLY DRAWINGS



STB - 105

Detail - G



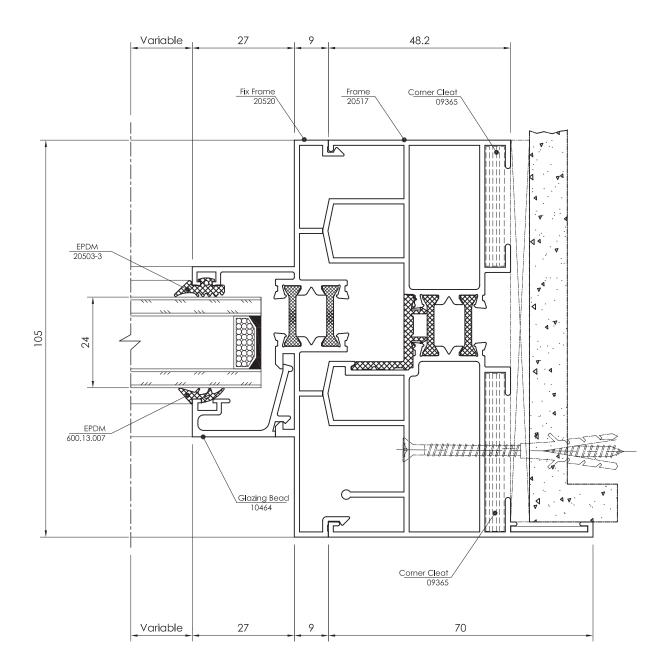
All dimensions in mm



31



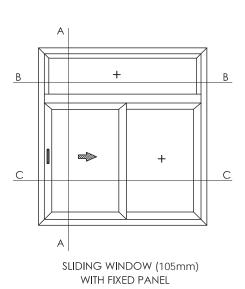
STB - 105 Detail - H



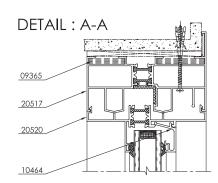
All dimensions in mm Visible area____

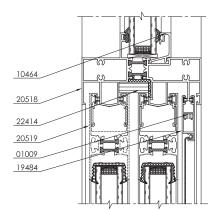


ASSEMBLY DRAWINGS

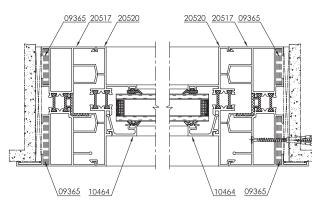


	Profiles	
Description	Shape	Section No.
Frame	Ľ <u>₽</u> Ľ	20517
Sash		20519
Interlock	<u> </u>	25592
Fix Frame		20518
Fix Profile	┍╴╫ <mark>╢</mark> ╌╴┍	20520
Fly Screen		19484
Glazing Bead	۳ ۲	10464
Dust proof	- Manakanan e	22414
Corner Cleat		09365
Corner Cleat		01009

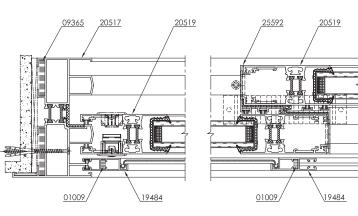


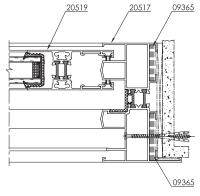


DETAIL : B-B



DETAIL : C-C



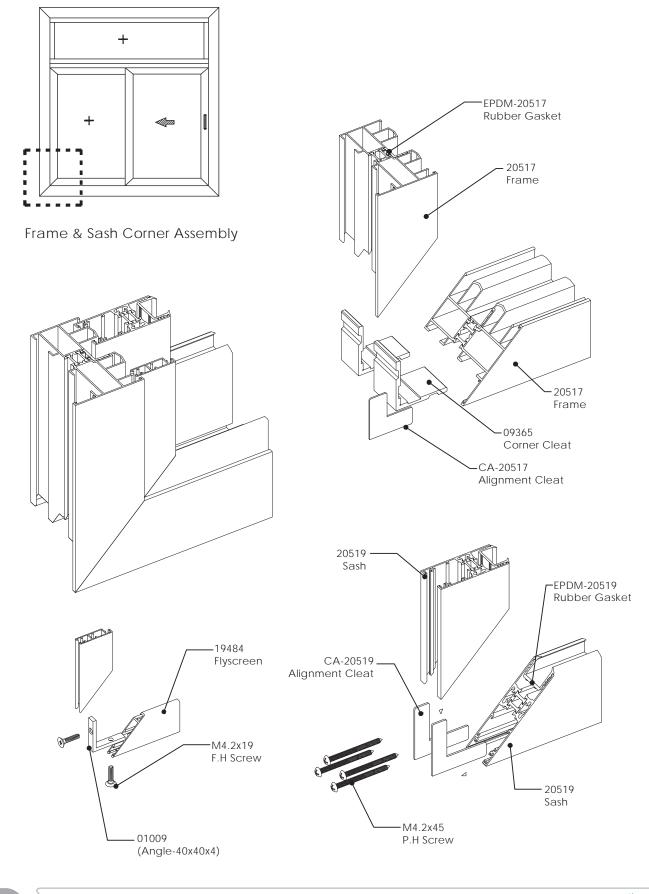






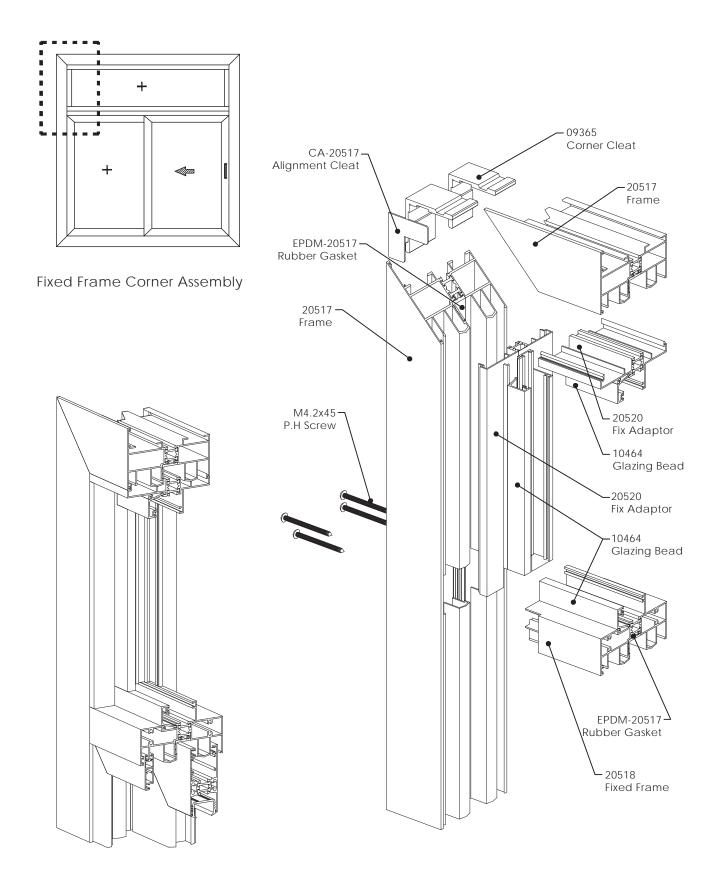
3D SECTIONS







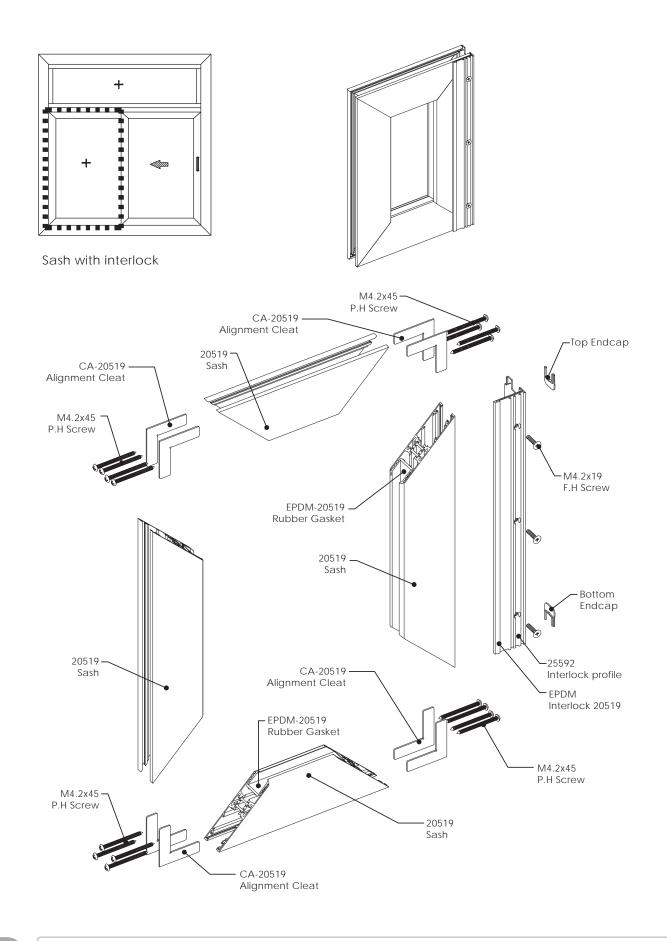
3D SECTIONS





3D SECTIONS

105-H





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