

2nd Industrial City, K.S.A |†| +96613-812-7776 |f| +96613-812-7470

ALU@AMG-METAL.COM

من .ب 13631 - الدمام 14 المملكة العربية السعودية



ADVANCED MANUFACTURING FOR METAL & GLASS CO.

"We believe in building to positively impact communities, infrastructure, the economy, opportunity and employment. We take great pride in being proactive with our approach to projects, while ensuring that the best quality is represented at every stage."

PRE-QUALIFICATION CATALOGUE 2024

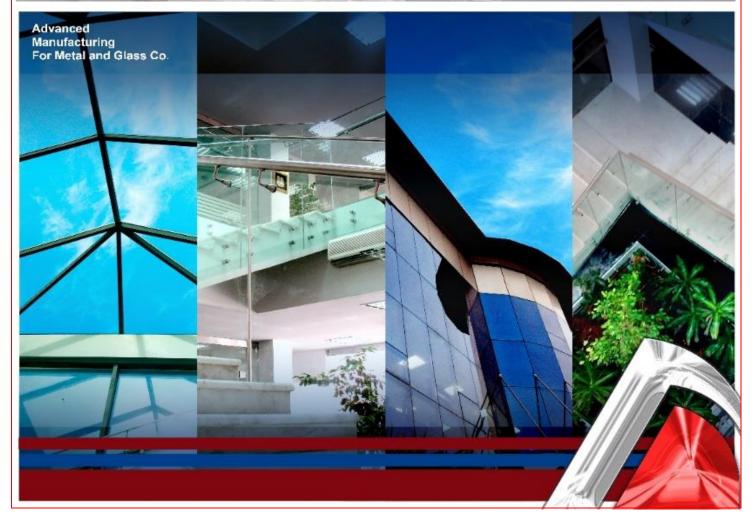
Contents:

- 1. Introduction
- 2. Organization Chart
- 3. Licenses and Certifications
- 4. Major Equipment / Facilities
- 5. Project References.
- 6. Product Specifications
- 7. Approach to Projects
- 8. System Drawings
- 9. Custom Made Design Drawings
- 10. Stainless Steel / Other Products
- 11. Test Reports and Approvals



INTRODUCTION





Known as "**AMG**" company, located in 2nd Industrial Area, Dammam, Saudi Arabia; established in the year 2007, with a paid-up capital of SAR 20,000,000 under company no. (628970) from the Ministry of Commerce and Industry.

From its fundamentality, AMG has grown to become one of the most outstanding companies in its specialized field of <u>design</u>, fabrication, assembly, and installation of glazing and aluminum facades.

Its yield range includes with

General Information:

- a) structural and conventional curtain wall (stick and unitized),
- b) aluminum doors and windows,
- c) aluminum cladding (ACP)
- d) dome and skylight,
- e) canopy and louvers,
- f) glazed wall & internal glass partitions,
- g) mashrabiya panels,
- h) all other aluminum and glazing works.
- Operating in a facility area of 21,000 m². The production area facility is 10,500 m² and the rest is a supporting area for material movement. With a classy machine aid and highly trained and skilled manpower resources that meet international specifications.

Our primary focus is to meet and accomplish the requirements of our clients with expertise, dedication to work, and of a high-quality result.

Company Name		ADVANCED MANUFACTURING FOR METAL & GLASS CO.
Acronym	:	AMG Company
Mailing Address	:	PO Box, 13631, Dammam, 31414- Kingdom of Saudi Arabia
Physical Address	: (Bld <mark>g. 2700 – 16th Street, 2nd In</mark> dustrial Area, 34334 – Saudi Arabia
Telephone	:	+966 13 812 7776
Fax	:	+966 13 812 7470
Email	:	alu@amg-metal.com
Website	: /	www.amg-metal.com
CR	- : / / /	2050058201
Chamber	:	91312
Zakat	· · · · /	1110210954
VAT Certificate No		30048683100003
ISO Certification	:	SZT.2023.SB2.0.044

Maps: <u>https://maps.app.goo.gl/cJUG3MMuB7Ur8F2X7</u>





AMG Company has successfully served to the utmost satisfaction of its clients in the following sphere of activities.

Aluminum Fabrication:

From extruded and rolled materials supplied by globally known sophisticated suppliers such as SCHUECO, VISTAWALL, BALEXCO, REYNAERRS, INSTALLUX, ALUPCO, ALUMAN, ALU-K, EFP, and GUTMANN, including the following sub-activities.

- <u>Design</u> From concept to full working drawing including technical submissions and supportive data is available with us.
- <u>Fabrication</u> Utilizing the state-of-the-art equipment and sophisticated machines; the fabrication is done to the highest degree of accuracy and finish.
- <u>Assembly</u> Using crimping method or other mechanical connections, all units are assembled to international standards.
- <u>**Transportation**</u> AMG has its own fleet to transport the material to the customers throughout the Kingdom Provinces. <u>**Installation**</u> – Trained installers, controlled by Project Manager are working in planned and agreed sequence, having regard to individual project requirements, covering, securing masonry, alignment, and application of caulking/mastic sealant.

Factory Location:

AMG is in 2nd Industrial Area in Dammam, Kingdom of Saudi Arabia in a purposed built factory. The administrative office is attached to the factory.

Production Capacity:

At present AMG can produce between 800 m² to 1,200 m² of glazed aluminum doors and windows, operating in one shift of 8 hours a day. The production range includes sliding doors & windows, side and bottom/top hung windows, single and double swing doors, louvers, partitions, railing, curtain wall, structural glazed curtain wall, horizontal structural curtain wall, etc....

Quality Control:

We (at AMG) establish, implement, maintain, and continually improve Quality Management System according to International Standard ISO 9001:2015 aligned with our scope "Design, Fabrication, Assembly and Installation of Façade Works". (Certified ISO 9001:2015 - # SZT.2023.SB.2.0.044)

Pre-delivery inspection of materials ensures a strict quality control scheme is being implemented to check flaws and errors in materials and workmanship.

HSE Policy:

AMG requires the active commitment to and accountability for Health, Safety, & Environment (HSE) from all employees and all contractors. We are committed to protect and strive for improvement of the health, safety, and security of our people at all times; eliminate quality nonconformances and HSE accidents; meet specified customer requirements and ensure continuous customer satisfaction; set quality and HSE performance objectives; measure results; and assess and continually improve processes, services, and product quality through the use of an effective management system; plan for, respond to, and recover from any emergency, crisis, and business disruption; minimize our impact on the environment through pollution prevention, reduction of natural resource consumption and emissions, and the reduction and recycling of waste; apply our technical skills to all HSE aspects in the design and engineering of our services and products; improve our performance on issues relevant to our stakeholders that are of global concern and on which we can have an impact and share with them our knowledge of successful HSE programs and initiatives.

Delivery:

Inspections of the goods/products are to be conducted to ensure before it is being delivered for installation. The quality check is cleared, and delivery notes are to be issued to complete the documents before sending it to the site.

Installation:

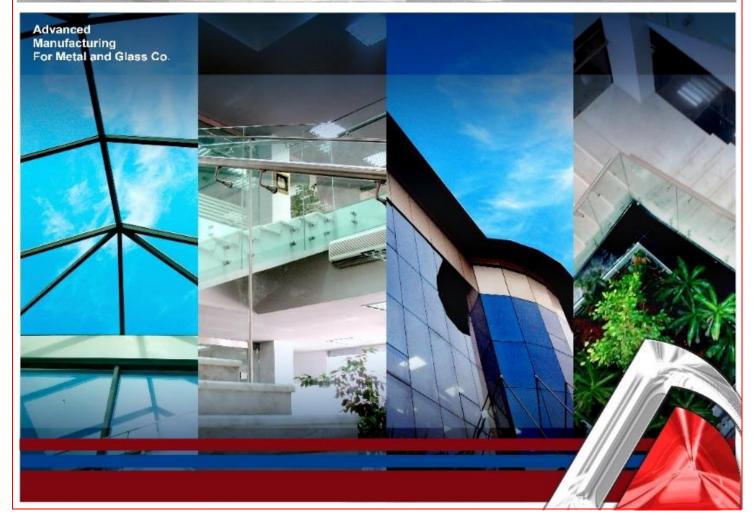
The delivered materials are then to be checked and quality measures are to be executed at the site to further ensure the quality of the product.

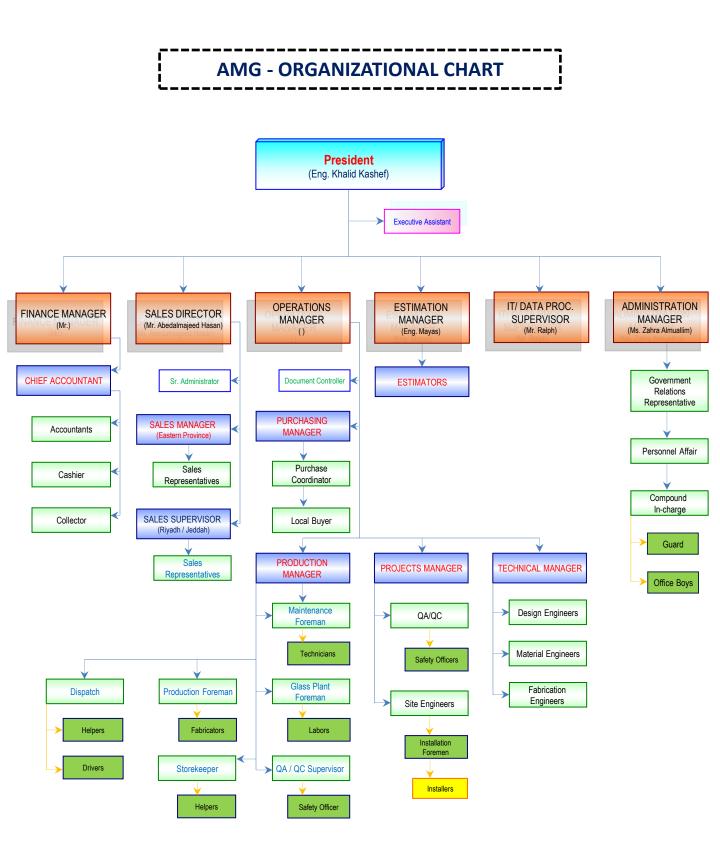




ORGANIZATION STRUCTURE







ORGANIZATION STRUCTURES:

Manpower List:

Title	Qty	Title	Qty
General Manager	1	Site Engineers	3
Executive Assistant	1	Surveyors	2
Sales Director	1	Production Manager	1
Sr. Administrator	1	Maintenance Foreman	1
Sales Manager (Eastern Region)	1	Technicians	2
Sales Representatives	2	Glass Foreman	1
Sales Supervisor (Riyadh/Jeddah)	1	Helper/Labor	6
Sales Representatives	2	QA/QC Supervisor	2
Estimation Manager	1	Safety Officer	1
Estimation Supervisor	1	Production Supervisor	1
Estimators	4	Fabricators	50
Administration Manager	1	Storekeeper/Warehouse Lead	2
Supervisor Personnel Affairs	1	Helpers	4
Government Relations Officer	2	Dispatching Supervisor	1
Compound In-Charge	1	Drivers	
Telephone Operator	1	Helpers	
Office Boys	3	Other Labors (Welder, painter,	
Guards	1	mechanic, Electrician, etc)	12
Finance Manager	1	Projects Manager	1
Chief Accountant	1	Project Engineers	3
Accountants	2	Site Engineer	3
Cashier	1	QA/QC Engineer	2
Data Processing Supervisor (IT)	1	HSE / Safety Officer	2
Operations Manager	1	Foreman	3
Secretary		Installers	85
Material Planning Engineer	1 1	Purchase Manager	1
Material Engineer	1	Secretary	1
Technical Manager	1	Purchasing Coordinators	2
Executive Technical Assistant	1	Local Purchase Coordinator	1
Design Engineers	3	Total	244





CERTIFICATIONS / LICENSES





الرقم الموحد : رقم المنشأة : التاريــــــــــــــــــــــــــــــــــــ	شهادة تسجيل الشركة Company Registration Certificate	وزارة التجارة Ministry of Commerce
	زجاج شركة ذات الشخص الواحد	مم التباري للشركة : الشركة المتقدمة لتصنيع المعادن واا
	جنسيتها : ســـعودى	
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	بانه تم تسجيل الشركة المذكورة أعلاه بمدينة : الدمام	برين برين الدمام
	بانه تم تسجيل السركة المذكورة اعلاه بمدينة : بموجب الإيصال رقم :	هد مكتب السجل التجاري بمدينه : ١٤٤٩/٠٧/٠١ هـ
وتاريخ :, , , , , , , , , , , , , , , , ,	بموجب الإيصال رقم :	هي صلاحية الشهادات في :
E.8.5.4 *****		
سحة هذه الشهادة بالدخول على المرابعة المرابع المرابع المرابع المرابع المرابع المرابع المرابع المرابع المرابع ال WWW المملكة العربية السعودية Kingdom of Saudi Arabia الزياض 11162 WWW		





GOVERNMENT LICENCES

TIN

Certificate No.

Issue Date



شهادة

Certificate

الشركه المتقدمه لتصنيع المعادن والزجاج

V .. 10

1.140.00

(الحادم و العشرون من شوال ألف و أربعمائة و خمسة و أربعون هجري) (The Twenty first of Shawwal one thousand four hundred forty-five Hijri)

لايعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة الالكتروني: www.zatca.gov.sa This certificate is not valid until verified by the Authority's Website: www.zatca.gov.sa

هيئة الزكاة والضريبة والجمارك Zakat, Tax and Customs Authority المملكة العربية السعودية

Kingdom of Saudi Arabia

تشهد هيئة الزكاة والضريبة والجمارك أن المكلف /

الرقم الموحد للمنشأة / رقم هوية

سجل تجارى / رخصة / عقد رقم

مستحقاته النهائية عن العقود.

٠٣/٤٠١٩م

قدم إقراره عن الفترة المنتهية في ١٤٤٤/٠٦/٠٧ هـ ، وقد منح هذه الشهادة لإنهاء جميع معاملاته بما في ذلك صرف

هذه الوثيقة مستخرجة من النظام الآلي ولا تحتاج إلى توقيع

ولا يعتد بهذه الشهادة إلا بعد التحقق منّ موقع الهيئة

يسرى مفعول هذه الشهادة حتى تاريخ ٢١/ ١٤٤٥/١٠ هـ الموافق



The Zakat, Tax and Customs

Entity Unified No. /ID No.

Contract No

AD

zatca.gov.sa

19993

TENT

@zatca_sa

Commercial Registration/License/

payment of the final amount due on the contract.

Authority certifies that the Taxpayer

T+++ EA71AF1 رقم الشهادة ١١١٠٢١٠٩٥٤ تاريخ الاشعار ١٤٤٤/١٠/٠٩ هـ

الرقم المميز

Has submitted his tax return for the period ending on 31/12/2022 AD, and he

was granted the certificate to complete all his transactions including the

The Certificate is valid until 21/10/1445 AH corresponding to 30/04/2024







Proof Number	1031403926	رقم الإثبات
Original Date	27/2/2023	تاريخ الإصدار
Expiration Date	8/26/2023	تاريخ الانتهاء

إثبات عنوان

Address Proof

Address Holder Details بيانات صاحب العنوان الشركة المتقدمة لتصنيع المعادن Advanced Manufacturing for Metal & Name الاسم والزجاج شركة ذات الشخص الواحد Glass 6 3 3 0 2 1 Customer Acc. 7 1 1 رقم الحساب 2/6/2013 Reg. Date تاريخ التسجيــل **Address Details** تفاصيل العنوان Short Address العنوان المختصر Е L G А 2 7 0 0 الشارع Building No. Street رقم المبنى الدمام 403 7 0 0 2 7 2 Al Dammam 403 0 0 الرقم الفرعي Secondary No. District الحي 7 4 8 1 7 4 8 1 Postal Code الرمزي البريدي 3 4 3 3 4 3 3 4 4 3 City المدينة DAMMAM الدمام Kingdom of Saudi Arabia المملكة العربية السعودية



للتحقق To Verify

تم إصدار هذا الإثبات إلكترونيا ولا يتطلب التوقيععليه

تم إصدار هذا الإثبات بناء على طلب الموضح أعلاه، ويحظر قطعيا تقليده أو إدخال أي تعديلات عليه سواء بالإضافة أو الحذف، ويعد الإثبات لاغيا إذا شابه شيء من ذلك، كما يعرض صاحبه للمساءلةالقانونية.

This proof has been issued electronically and does not require a signature

This proof has been issued upon the request of the above-named, and it is absolutely prohibited to imitate it or make any modifications to it, whether by addition or deletion, and the proof is considered void if it is marred by something, and its owner is subject to legal accountability.

🔇 19992 🖉 https://splonline.com.sa/ar/national-address-1/ 🔸







شهادة سعودة

رقم الشهادة 123936-19433736 تاريخ الإصدار 09-03-2023 تاريخ الانتهاء 07-06-2023

رقم المنشأة 1617-4 اسم المنشأة الشركة المتقدمة لتصنيع المعادن والزجاج شركة ذات الشخص الواحد حالة الشهادة نشط رقم السجل التجاري 2050058201 الرقم الوطنى الموحد 7001539308





تشهد وزارة الموارد البشرية والتنمية الاجتماعية بأن المنشأة المذكورة أعلاه حققت نسب التوطين المطلوبة منها وتم منحها هذه الشهادة حسب طلبها **الشهادة معتمدة من صاحب الصلاحية ولا تحتاج إلى توقيع أو ختم**





September 2, 2012

YOUR SAUDI ARAMCO VENDOR REGISTRATION NUMBER: 10049336

ADVANCED MANUFACTURING FOR METAL AND GLASS CO. P.O.BOX.13631 Dammam 31414 Saudi Arabia

Gentlemen;

Thank you for your interest in providing contract services to Saudi Aramco. Your new contractor registration application has been approved and your Company has been assigned the following Vendor Number:

YOUR ASSIGNED SAUDI ARAMCO VENDOR NUMBER: 10049336

(Please note this Vendor Number for your future reference.)

We appreciate your interest in doing business with Saudi Aramco and wish you the best of success.



Sgd:

Manager Saudi Aramco Contracting Department





CERTIFICATIONS / Vendor Approval

Kingdom of Saudi Arabia Royal Commission For Jubail & Yanbu Royal Commission in jubail



المملكـة العربيــة السعوديــة الهيئة الملكية للجبيل وينبع الهيئة الملكية بالجبيل

إخطار بتسجيل مورد

التاريخ : ١٣/ ٥٠/١٣هـ

فرع الشركة المتقدمة لتصنيع المعادن والزجاج

فاکس رقم: ۸۱۲۷٤۷۰

السسلام عليكم ورحمة الله وبركاته،

نقدر لكم رغبتكم بان تكونوا احدى الموردين المسجلين لدى الهينة الملكية بالجبيل.

و هذا الإشعار لتلبية طلبكم للتسجيل لدينا بموجب المستندات الرسمية المقدمة التي تمت مر اجعتها و الموافقة عليها. علماً بأن الهيئة الملكية بالجبيل- إدارة المشتريات و المستودعات سجلت شركتكم/مؤسستكم تحت الرقم ١٣٢٣٨

ولكي يتسنى لكم الدخول في التوريد وطلبات المواد التابعة للهيئة الملكية بالجبيل، يرجى منكم متابعة الإعلانات التي يتم نشرها في الصحف المحلية ولوحة الإعلانات الخاصة لإدارة المشتريات والمستودعات، وكذلك على الشبكة الألكترونية للهيئة الملكية.

' 5

ولكم تحياتي، عبدالر

عبدالرحمن بن ابراهیم الجلعوز رنیس قسم المشتریات ادارة المشتریات والمستودعات

ANNOUNCEMENT OF SUPPLIER REGISTRATION

Date : 27/04 /2010

ADVANCED MANUFACTURING FOR METAL AND GLASS (AMG)

FAX NO.: **8127470** Gentlemen:

We would like to thank you for your interest in being a supplier registered With Royal Commision In Jubail .

This is to acknowledge that your registration request and documentation have been reviewed and accepted. Royal Comission in Jubail- Supply Management Department has registerd your Company/Estblishment under vedor Number 13238

To participate in the Royal Commission's supplies and material requests, your Company/Estblishment have to followe up with advertisment that published on local newspapers, or posted on the Supply Mnagement Bulletin Board, and on the Royal Commission Web-Site.

Very truly yours,

A. I. AL-JELOUZ Purchasing Manager Supply Management Dep.

Steel PVC-U Solar products Design Service

SCHÜCO

07 March 2012

To Whom It May Concern

Schüco Middle East Windows & Façade Systems L.L.C. hereby confirms that Advanced Manufacturing for Metal & Glass Company, P.O. Box 13631, Dammam, K.S.A. ("AMG"), is an authorized Schüco aluminum fabricator in Saudi Arabia. AMG is authorized to sell fabricated Schüco products internationally.

This authorization covers the use of Schuco systems and support according to Schuco's policies and procedures, which includes allowing the following:

- The use of Schuco designs;
- The purchase of Schüco systems genuine aluminum profiles and accessories from Schüco Middle East;
- The purchase from Schuco Middle East of all related required punching tools and equipment to fabricate and install the system;
- Technical support as needed and agreed.

Schuco Middle East Windows & Façade system is the sole Schuco subsidiary authorized by Schuco International KG (<u>www.schueco.com</u>) to sell genuine Schuco aluminum profiles and accessories in the Territory, which includes Saudi Arabia and other countries in the Middle East and Africa. Schuco Middle East Windows & Façade System LLC is also the sole entity authorized to approve, appoint, and authorize Schuco fabricators in the Territory, and is the only Schuco subsidiary authorized to sell un-fabricated profiles and accessories in the Territory.

Please do not hesitate to contact Schüco Middle East Windows & Façade System LLC should further details and/or clarifications be needed regarding this authorization.

This letter is valid for one year from the date first written above.

Sincerely,

Schuco Middle East Windows & Façade Systems L.L.C.

56 Schuco Middle East Windows and Facade Systems LLC. P.O. Box 1861 · Sharjah · U.A.E Ammar H. Alul



General Manager

Tel: +971 6 5336659

Fax:+971 6 5337732

P.O. Box 1861 - Sharjah - U.A.E.

www.schueco.ae - info@schucome.com

Schuco Middle East Windows and Façade Systems L.L.C.

شركة شوكو ميدل إيست للنوافذ وأنظمة الواجهات ذهرهم. من ... (1865 - الشارية - الإمارات العربية للتحمة عائد : 6533655 عا 971ه - التحير: 653377 عا 971 - 1960 - www.schueco.ae - info@schucome.com





This is to certify that

ADVANCED MANUFACTURING FOR METAL AND GLASS CO.

16 St,Industrial Area-2, Dammam, Saudi Arabia

is now part of the Dun & Bradstreet Global Database

> D&B D-U-N-S Number_® 55-784-8016

R Suryanarayan, General Manager Africa Dun & Bradstreet South Asia Middle East Limited

April 5, 2016

& Dun & Bradstreet South Asia Middle East Ltd.



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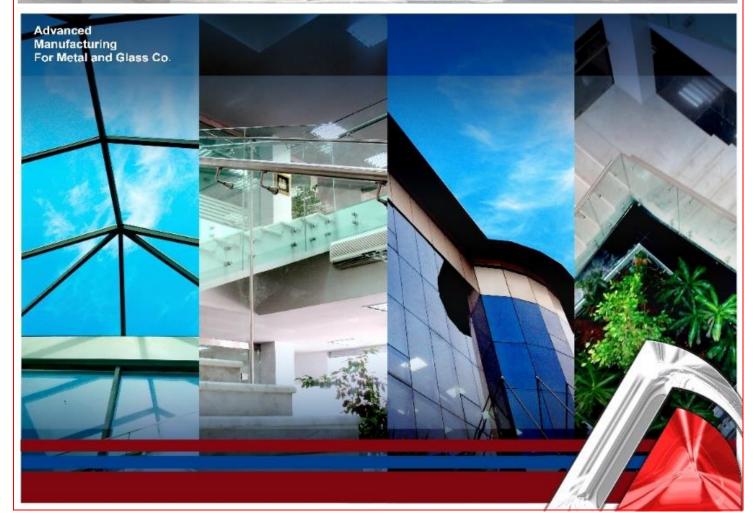






FACILITIES & EQUIPMENT





AMG Co. is in 16th Street, 2nd Industrial City, Dammam. Operating in a facility area of 21,000 m². The designated zone for the production area is 10,500 m² and the rest of the area is a supporting area for material movement.







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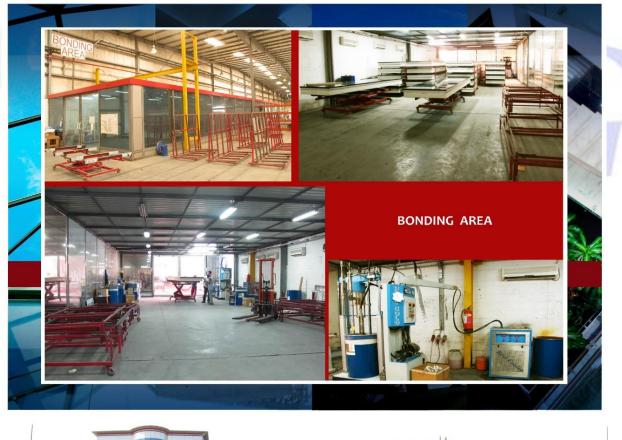






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AMG COMPANY

Curtain wall capacity per year?	250,000 m ²
Factory total production area?	15,000 m ²
Facility for design & engineering?	Available
Do you have your own testing center?	No / By outsource.
bo jou have jour own cesting center	
What system do you use?	Schuco, Reynaers, EFP, Vistawall, Gutmann, Alupco
Structural-thermal-acoustic-LEED specialist?	Yes
Pre-construction testing	Profiles are pre-tested, by outsource.
Flow chart showing different manufacturing stages	Yes. Attached.
(From raw material to finish product)	
이 가지 않는 것이 같은 것이 같은 것이 같은 것이 같은 것이 같은 것이 같이 많은 것이 같이 있는 것이 없다. 것이 같은 것이 없는 것이 없이 않이 않이 않이 않이 않이 않이 않이	ory Departments
Warehouse Department	
Storage Area: 3,500 m ²	
Workers: 5	
Aluminum Profiles	
Glass	
Sealing Materials	
Composite Materials	
Accessories	
Aluminum Composite Department	
Total Area : 1,000 m ²	
Workers: 14	
Machinery	
AXYZ CNC Panel Builder Machine (1)	
Cutting Machines - ELUMATEC (1)	
Rolling Machines - SAHINLER-230223 (1)
	/
Façade CNC Machining Department	
Total Area: 3,000 m ²	
Workers: 60-80	
Machinery	
EMMEGI- 6-Axis Profile Machining Cen	ter (1)
ELUMATEC - 5-axis Profile Machining C	
EMMEGI - Double Degree Cutting Mac	
ELUMATEC - Double Head Cutting Mac	
EMMEGI - Single Head Cutting-off Mac	
ELUMATEC -Manual Single axis Milling Mac	
ELUMATEC- Manual Double Axis Milling Ma	
ELUMATEC- Automatic Table Saw (2)	
ELUMATEC- Notching Machine (3)	
ELUMATEC - Cutting Machine (2)	
THOMAS - Cutting Machine (2)	
PBT 25- Profile Bending Machine (1)	
BEST MAKINA -Silicon Injection Machine	ne (1)
BEST MAKINA - Rotating Table Machin	
ELUMATEC -Crimping Machine (2)	- \/
REYNAERS - Hydraulic Press Machine (2)	2)
UNIVERSAL - Press Drilling Machine (3)	
DRILL MASTER -Press Drilling Machine (5)	
Druce MASTER - Less Druining Machine	(9



AMG COMPANY			
UNIVERSAL 10" Table Saw (1)			
UNIVERSAL - Wrapping Machine (1)			
Façade Assembly Department			
Total Area: 4,000 m ²			
Unitized Curtain Wall Panel Systems: 10,000 m ² /month			
Stick System: 15,000 m²/month			
Starl 9 Walding Department			
Steel & Welding Department Total Area: 2,000 m ²			
Workers: 20			
Capacity: 60,000 - 80,000 kg/month			
Machinery			
LOYAL Mac Plasma Machine 060 (1)			
Water Jet TEXA-00077457 (1)			
Laser Machine - ERMAK 18879-n8v654 (1)			
Nibbling Machine EUROMAC MR01063530	D (1)		
Shark Bandsaw 281/260 (2)			
Chenlong Metal Band - Sawing Machine (1	1)		
Universal Punch Machine- SAHINLER (1)			
EDWARD Punch Machine (1)			
Lathe Machine Koppings Mekaniska (1)			
Drill Press (6)			
Welding Stations (5)			
Cutting & Bending Department			
Total Area: 1,000 m ²			
Workers: 10			
Capacity: 5,000 m²/month			
Machinery			
CNC DURMA Bending Machine (1)			
CNC ERMAC Bending Machine (1)			
Shearing Machine DURMA (1)			
Shearing Machine ERMAC (1)			
Aluminium Composite Panel Processing Department			
Total Area : 1,000 m ²			
Workers: 14			
Capacity: 10,000 m²/month			
Machinery:			
AXYZ CNC Panel Builder Machine (1)			
Cutting Machines - ELUMATEC (1)			
Rolling Machines - SAHINLER-230223 (1)			
Electrostatic Painting Department From outsource companies approved by our sy			
Logistics Department?	Workers: 10		
Human Resources Department?	Personnel: 4		
Quality Control Department?	QA/QC: 6		
Quality Management Department?	Available		
Survey Team	Surveyor : 3		



MAJOR EQUIPMENT

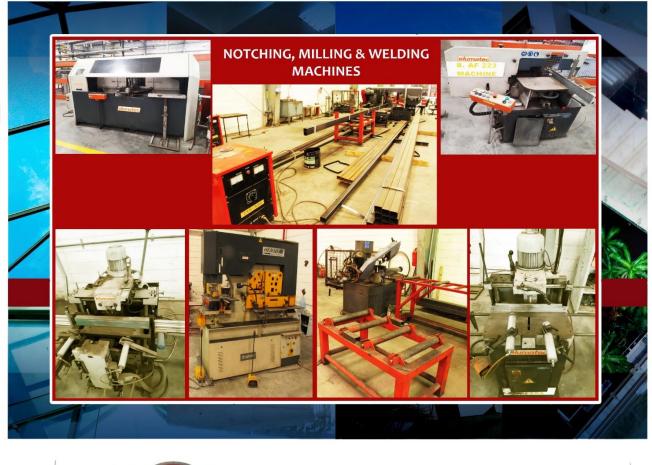






MAJOR EQUIPMENT









PROJECTS REFERENCES





CLIENT/CONTRACTOR	PROJECT NAME	AMOUNT (SAR)	SCOPE	LOCATION
Tharouk Contracting	Bamarouf Building	12,200,00	Cladding, Curtain Wall, Louver, Frameless partitions	Jeddah
Al Kifah Contracting	Al Kifah Tower	5,694.832	CW, Cladding, Canopy, and Frameless	Khobar- Dammam
A.Al-Syed Con. Group	Al Amal Hospital	2,668,854	Doors, Window, Curtain Wall	Dammam
Al Joudah Contracting	College of Medical Science – Al Jouf University	7,139,345	CW, Cladding, Doors & Windows	Jouf
Al Joudah Contracting	Faculty of Society – Al Hail University	6,185,313	CW, Cladding, Doors & Windows	Hail
Al Joudah Contracting	Faculty of Science – Al Baha University	6,037,939	CW, Cladding, Doors & Windows	Baha
Khaled Est. Gen. Contr.	Medical Tower	6,572,547	CW, Cladding, Doors & Windows	Jouf
Saudi Bin Ladin Group	(KSU) Research Center	10,246,483	CW, Cladding, Skylight, Doors & Windows	Riyadh
Saudi Bin Ladin Group	(KSU) Girl's Housing	11,311,151	CW, Cladding, Doors, & Windows	Riyadh
Four Corners Contracting	AACC New Facilities Bldg.	4,341,281	CW, Cladding, Doors & Windows	Jeddah
MASCO	Unaizah University (Qassim)	6,074,557	CW, Cladding, Doors & Windows	Unaizah
Al Qussie International	Technical Science for Girls	4,577,823	CW, Cladding, Doors & Windows	Dammam
Dar Al Khiyoul Contractingq	Al Othaim Mall	9,970,800	CW, Cladding, Doors, &Windows	Dammam
Drake & Skull / ARAMCO	UPDC Building	7,501,025	CW, Canopy, and Frameless	Dhahran
Al Hokair Contracting	Mall of Arabia	36,426,269	CW, Cladding, Skylight, Doors & Windows	Jeddah
IBS	Samsung Naffora Techno Valley	2,073,522	CW, Cladding, Doors & Windows	Jubail
Al Subeaei Contracting	Al Fanar Tower / Jacobs Zate	6,065,458	CW, Cladding, Doors & Windows	Khobar
ARCON	Baker Hughes Tech. Center	1,387,551	CW, Cladding, Doors & Windows	Dhahran
United Arabian Company	Al Noaimy Tower	1,967,267	CW, Cladding, Doors & Windows	Jubail
Maliki Contracting	Al Jarbouh Tower	2,929,583	CW, Cladding, Doors & Windows	Khobar
Al Joudah Contracting	Water Tank Tower	9,698,190	CW, Cladding, Doors & Windows	Khamis Mushayt
Damac Properties Co. Ltd	Al Jawhara Tower	20,028,792	CW, Cladding, Doors & Windows, Canopy	Jeddah
Damac Properties Co. Ltd	Exclusiva Tower Towers	42,548,784	CW, Cladding, Doors & Windows, Canopy	Riyadh
Safari Company	Al Jouf University	6,380,922	CW, Cladding, Doors & Windows	Jouf
DSCC	Rafal Living Tower	52,000,000	CW, Cladding, Doors & Windows	Riyadh
Marco	Taif University		CW, Cladding, Doors & Windows	Taif
Al Joudah Contracting	Arar Airport		CW, Cladding, Doors, Windows, Partitions	Arar
Al Manar Contracting	National Guard Building		CW, Cladding, Doors & Windows	Dammam
Jamal Al Jaroudi Group	Al Qassim Museum		CW, Cladding, Doors & Windows	Qassim
The Palms	Admin Building		CW, Cladding, Doors & Windows	Riyadh
Jamal Al Jaroudi Group	Modon – Ready Built Factory		CW, Cladding, Doors & Windows	Jizan
Jamal Al Jaroudi Group	Modon – Multi Storey Factory		CW, Cladding, Doors & Windows	Dammam
IKK Group	Sulai Office Building		CW, Cladding, Doors & Windows	Sulai, Riyadh
Gulf Builder	Modon – 84 Factories		CW, Cladding, Doors & Windows	Dammam
Alupco	MOI-SFMC – Border Housing		Doors, and Windows	Jizan
Sterling & Wilson – EDGNEX	Data Center		CW, Doors/Windows, Louvers, Cladding	Dammam-Spark



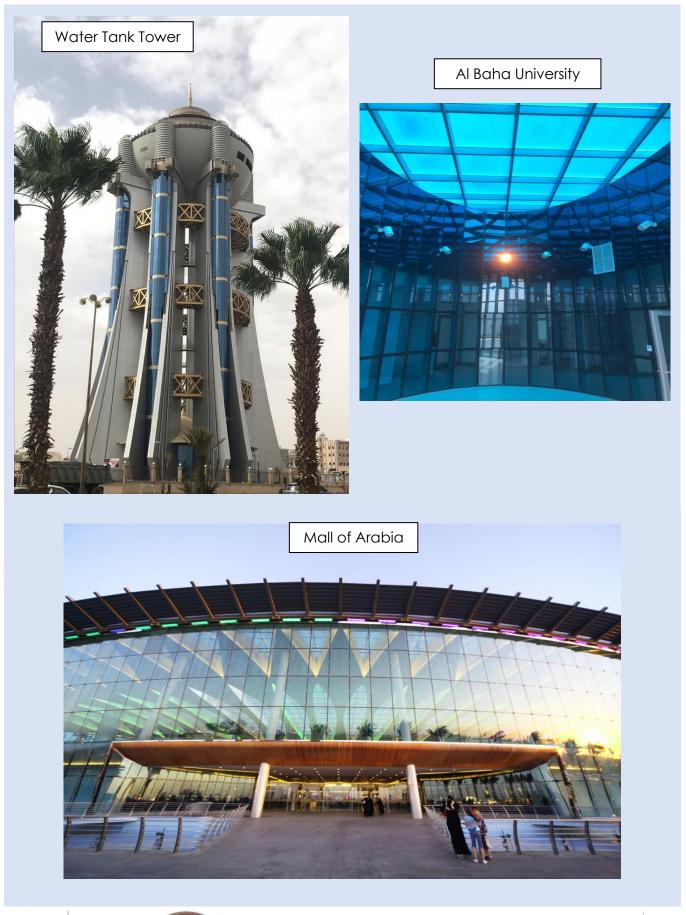


EDGNEX DATA CENTER (SPARK)













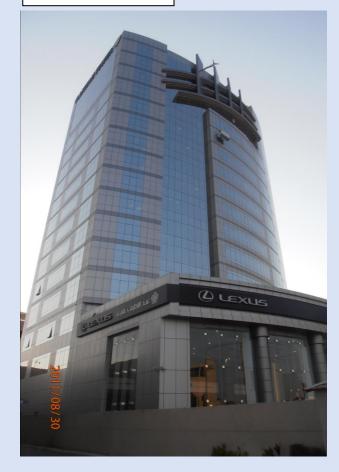
National Guard Building

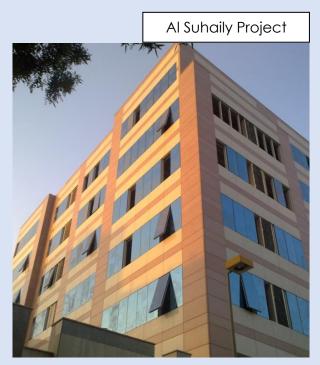


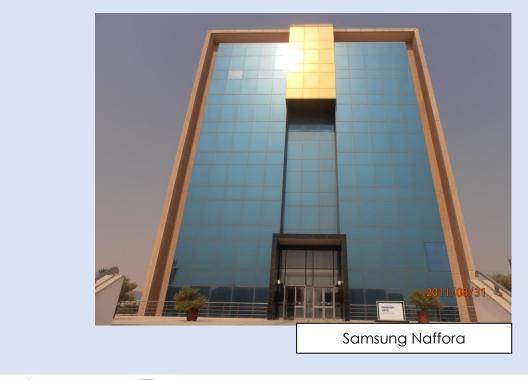


MAJOR PROJECTS REFERENCES

Al Kifah Tower



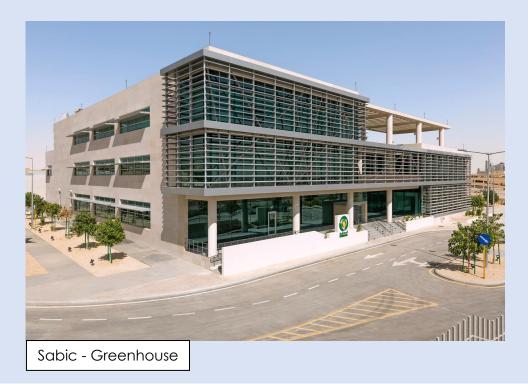






MAJOR PROJECTS REFERENCES





MAJOR PROJECTS REFERENCES

Al Jouf University







ON-GOING PROJECTS REFERENCES

ENT/CONTRACTOR PROJECT NAME	SCOPE	LOCATION	
ock – MOI Security Medical Forces Center (SFMC) - Main Building	CW, Cladding, Doors/Windows, Louvers	Riyadh	
ock – MOI Security Medical Forces Center (SFMC) - Engineering Building	CW, Cladding Doors & Windows	Riyadh	
ock – MOI Security Medical Forces Center (SFMC) - Residential Building	Doors, Windows	Riyadh	
C – SAHAYEB Data Center 1 -	CW, Doors/Windows, Louvers, Cladding	Dammam – Modon	
C – SAHAYEB Data Center 2 -	CW, Doors/Windows, Louvers, Cladding	Dammam – Al Anwa	
C – SAHAYEB Data Center 3 -	CW, Doors/Windows, Louvers, Cladding	Dammam – Al Waha	



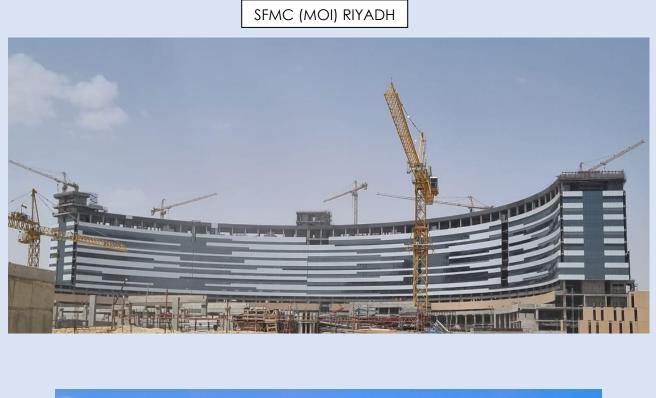


ONGOING REFERENCE PROJECTS





ONGOING REFERENCE PROJECTS



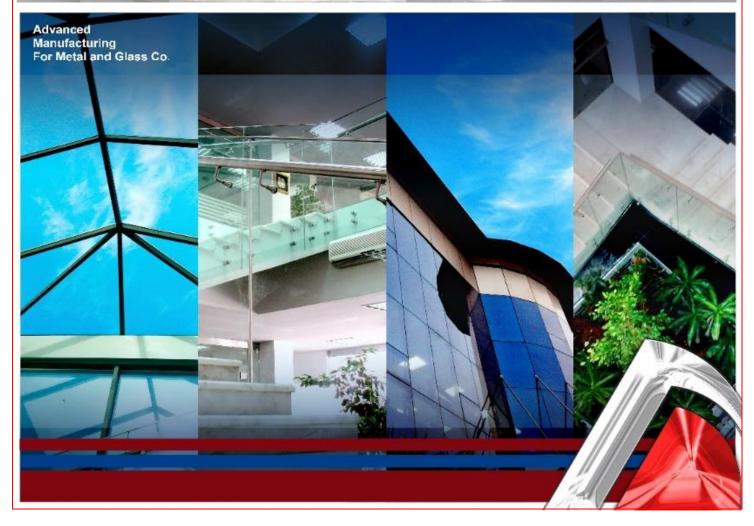






PRODUCT SPECIFICATIONS





AMG COMPANY:

The company's standard curtain wall, doors, and windows are designed and tested as per the international standards. Having ranges of fully integrated series of profiles, allowing manufacture of individual or composite units to suit a particular design option or variable to suit a multiplicity of client exacting requirements.

The system conforms to the most recognized European and International Standards in all aspects of design and fabrication, finishes of painting and/or anodizing, workshop practices, glazing and hardware. Skilled and trained installation teams are employed for improved operations.

The system has many unique and ingenious design features, it permits a variable glazing thickness of 4 mm to 24 mm glass or panels or any other type of in-fill construction using the bead clipping principle. Wall thickness of profile designed to suit in a particular application. Aluminum framed insect screens (single or double), quality system hardware: hinges, handles, locks, flush bolt, and many other hardware such as panic devices and door closers (surface and floor mounted) are all available to suit specific design.

Corner joints are individually designed and are constructed by welding; screw fixings within profile screw ports or generally mechanically jointed using cast or extruded aluminum cleats secured by mechanical jointed using cast or extruded sealed in accordance with BS4873:1972. All doors and windows are glazed, fully weather-stripped, and sealed against all elements with EPDM or equivalent gaskets. Aluminum insect screens where required are retained in aluminum frames using the rolled in gasket or clip method for fixing into main frame after installation. Windows are designed to allow water drainage to the exterior.

Quality finishes to surfaces of aluminum profiles, panels, hardware, and accessories, etc. may be in either anodizing or polyester painting. Many colors are available to suit client individual requirements.

Unless otherwise required/specified all exposed profiles are anodized to Grade AA20 or 20 microns minimum average thickness in accordance with BS 1615:1972.



1. CONFORMING TO FOLLOWING BRITISH AND INTERNATION STANDARDS :

	BS	DIN	ASTM	
Manufactured from extruded aluminum alloys generally.	BS 1474	17615P3		
Anodizing to	BS 3987	17611		
Glass generally to comply with requirements of	BS 952	n/a	1036	
Glazing in accordance with	BS 6262	n/a	UB	
Regulations sealant-single part gun grade polysulphide based	BS 5215	n/a	C920	
Wind Loading	BS CP-3 (Ch.5 Part2)	n/a	E330	
Construction in accordance with	BS 4873:1972 (Section 5.2.6)			
Weather Strip EPDM – International Standards	1503934-1978 (E)	7863	C864	
Weather Strip sizes		7715 Cat. E		
Design Criteria	General BS 4313 : Part 1 : 1968 DD4: 1971 BS 5386: Part 1 : 1976 Part 2 : 1980 Part 3 : 1974			

2. PERFORMANCE

Working with the above standards codes and drawings should not change the dimension or shape of the window and their components caused by presence or absence of water or variations in moisture conditions or temperature changes including the effect of differential temperature difference between and within the various components or deformation due to sporadic pressure of suction from the wind or by reason of their being used for their purpose or for any other cause within normal limits shall not affect the appearance, use, colour or performance specified.

All surface finish shall be uniform in texture, color, and appearance within the limits of the approved samples and without irregularities or distortion. Rivets and screws etc., which are not intended to be visible shall be treated so that there is no discontinuity of the finished surface.

3. CONSTRUCTION

The design and method of construction shall be consistent with good and proven practice.

Windows shall generally comply with BS 4873: 1972 in respect to materials, work sizes, manufacturing tolerance, glazing securities safety and performance.

The outer frames and leaves are crimped cleated and sealed at each corner. All in accordance with BS 4873:1972 Section 5.2.6.

All units shall be fabricated to agreed tolerances. No metals likely to cause galvanic or other corrosion shall be placed in contact with the aluminum. Any other dissimilar materials shall be treated to avoid such action between metals.



4. DELIVERY AND PROTECTION

- A. Aluminum window frames, components and accessories will be suitably protected with low-tac tape or other means from the time of leaving our premises to the installation in the building, suitable storage to be provided for all materials.
- B. All window units, assemblies or elements are to be prepared and packaged for transport to the site. All corners, edges and finished surfaces are to be adequately protected to avoid damages.

5. SEALANT

One part polysulphide-based gun grade in accordance with BS 5215, supported by suitable polyethylene backing core applied in accordance with manufacturer's recommendations.

6. WEATHER-STRIPPING

All opening sections are weather-stripping with E.P.D.M. gaskets to International Standards:

1503934 - 1978 (E) DIN 7715 cat. E BS 3734 And silicone brush.

7. MATERIALS

All aluminum frames and shutter profiles extruded from the following,

A1 Mg Si 0.5 F22 - F25) A1 Mg Si 1.0 F28) ---- World Designation A1 Mg Si 1.0 F32 - F36) All in accordance with BS 1474

Anodizing to BS 3987: 1974 (Anodic Oxide Coating on wrought aluminum for external architectural applications).

The finished anodized surface shall be free from "Banding, Streaking and Smut". Colour to be controlled within approved top and bottom limits agreed.

Fasteners shall be tempered aluminum, stainless steel or other metallic or non-metallic materials noncorrosive and compatible with the aluminum members.

8. HARDWARE/ACCESSORIES

All aluminum frames and shutter profiles extruded from the following,

Side Hung windows



Operating handles will be manufactured from one or more of the following materials with noncorrosive pins and springs etc.

aa. Extruded Aluminum bb. Die Cast Aluminum cc. Die Cast Mazak

Each shutter will be mounted on one set of aluminum extruded hinge with stainless steels pin and nylon bushes.

Bottom Hung Windows

One spring loaded catch manufactured from one or more of following materials with non-corrosive pins and springs etc.

aa. Extruded Aluminum bb. Die Cast Aluminium cc. Die Cast Mazak

Each leaf will be fitted with a set of hinges and a set of arms.

Sliding Windows

Each Sliding leaf shall receive the following hardware.

3 Rollers/Leaf One (1) side Handle/Lock

The frame shall accommodate handle striker plate and dust plugs.

Single Swing Doors

Single Swing doors shall have the following fittings.

aa. Two (2) nos. Hinges

bb. One (1) no. Lock

- cc. One pair of Lever Handle
- dd. One (1) Pair of Flush Extension Bolt

ee. One (1) Door Closer (Optional)

All the steel pins and springs etc used in above mentioned accessories shall be in stainless steel.

Double Swing Door

Double Swing Doors incorporate the following accessories.

aa. One (1) no. Floor Closer per leaf

bb. One (1) no. Dead Lock per door

cc. One (1) pair of Push/Pull Bar or Plate

dd. one (1) pair of Extension Flush Bolt

9. WORKMANSHIP



PRODUCT SPECIFICATIONS

The standard of workmanship, comprising design, fabrication and delivery shall be the best possible standard.

Cutting shall be straight and free from burrs and joints without gaps or imperfections except as designed.

The glass is secured in a gasket manufactured from E. P. D. M and is installed in the shutter frame either by the bead principle or wrap around dependent on type of windows. All in accordance with BS 4873: 1972 and BS: 6262: 1982 glazing for buildings.

10. DRAWINGS

Drawings shall be submitted in accordance with following.

The elevation of the unit, full size cross section, thickness, standard dimensions, the method of installing, anchorage, size of anchors and gap between them and method of weather-stripping.

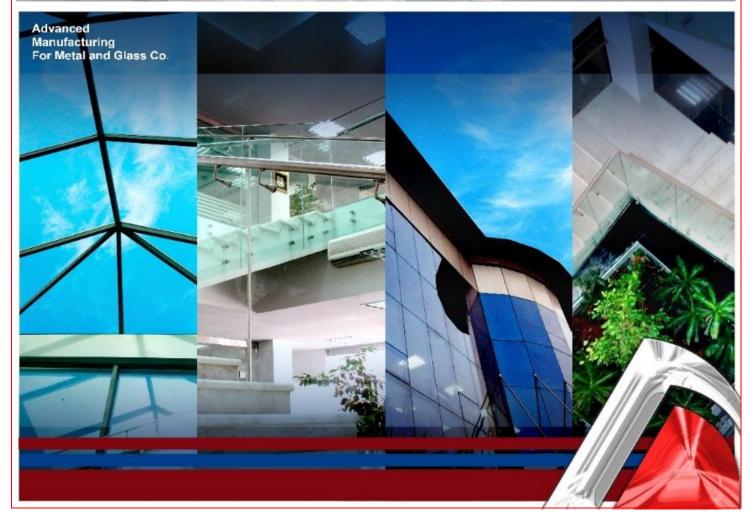






APPROACH TO PROJECTS





QUALITY CONTROL

The following notes are intended for the guidance of supervisory and Inspection staff.

It is expected that Section Supervisor will exercise strict control over their sections to ensure that Inspector have minimum cause for rejection of materials due to faulty workmanship.

Inspector will be familiar with the standard laid down by Advanced Manufacturing for Metal & Glass Co. with reference to British Standards method of compliance and will cooperate fully with management to ensure that no product leaving the work falls below the criteria dictated by these standards.

DELIVERY & INSPECTION

All aluminum profiles when delivered to be wrapped and tested for minimum micron thickness, top and bottom limits of color with approved apparatus. Profile to be checked for shapes and damages. All damaged areas are to be clearly marked.

Once all checks have been made and cleared for usage, all faces of profiles will be taped for inspection.

WORK INSPECTION

A.) Before commencing any new job, Supervisors will check with drawing office that materials to be used are as specified.

B.) On completion of machining operations, materials will be drugged of any swerve burrs or sharp edges.

C.) All cutting machines to be checked weekly for accuracy and operation. All jigs and fixtures will be checked for accuracy and alignment before a production run and at not less than weekly intervals during use. All inspection to be recorded in the relevant. Section logs and signed by Supervisor.

D.) Random Checks to be carried out by Operator Supervisor and Quality Control Inspector on accuracy of meters and other cuts.

E.) On final assembly of all parts, a complete inspection by Q.C. Dept. is to be carried out. Upon acceptance by Q.C, the Q.C. level of approval is to be attached and documented as required.

F.) Q.C. Inspector to fill in Q.C. report sheet daily, sending copy to Production Sales and master copy to the G.M. keeping copies for their own use.

This contains a description of the main activities to be executed during the performance and development of the project.

To sum up, the distinct features of Advanced Manufacturing for Metal & Glass Co. are best measured by the following key areas.

- 1. Overall Project Planning and Control
- 2. Engineering & Design
- 3. Production and Quality Assur
- 4. Procurement and Transportation
- 5. Installation



1. OVERALL PLANNING CONTROL:

In order to ensure that schedule will be met, cost controlled, and maximum efficiency obtained during all phases of the project, our activities with the cooperation of the Consultant would include the following:

- Overall planning and scheduling of design, manufacturing and fabrication.
- Material Submittals
- Coordination in preparation of material requisitions.
- Preparation and delivery of detailed shop drawings.
- Furnishing materials such as basic engineering, drawings, structural calculations and installation procedures.
- Organized release of drawings required for the product.

2. ENGINEERING AND DESIGN

The Engineering and Design department forms the essence of the spectacular growth of Advanced Manufacturing for Metal & Glass Co. in terms of technical, qualitative, and productive aspects. To further streamline the department activities, it has been subdivided into five distinct but interlinked groups.

- Estimation
- Design
- Costing
- Manufacturing
- Installing

3. PRODUCTION AND QUALITY ASSURANCE

In order to ensure that quality sta<mark>ndards are constantly maint</mark>ained, Advanced Manufacturing for Metal & Glass Co. shall make the high<mark>est degree to commit to the f</mark>ollowing:

Manufacturing:

- Preparation of fabrication drawings and manufacturing.
- In plant preliminary inspection run a thorough check to ascertain that all materials are properly manufactured and tested in compliance with the check point.
- For final quality inspection, examine the quality of materials and products before the delivery to site.

4. PROCUREMENT AND TRANSPORTATION

- All materials and products concerning this project are delivered with sufficient time to site.
- AMG will render its full assistance in the round of chain activities of loading, shipping, unloading, and inland transportation through their process of planning organizing and directing in close conjunction with the main contractor.
- Procurement activities concerning necessary hardware, weather-stripping, gaskets, and sealant will be performed by AMG in such a manner that all items are delivered timely to its plant for proper fabrication of the products.

5. INSTALLATION

Trained installers, under the supervision of qualified site Engineers controlled by the Project Manager, are working in planned sequence, having regard to individual project requirements, covering, securing to structural opening, alignment and application of levelling, shims covered with sealant with backing rod.



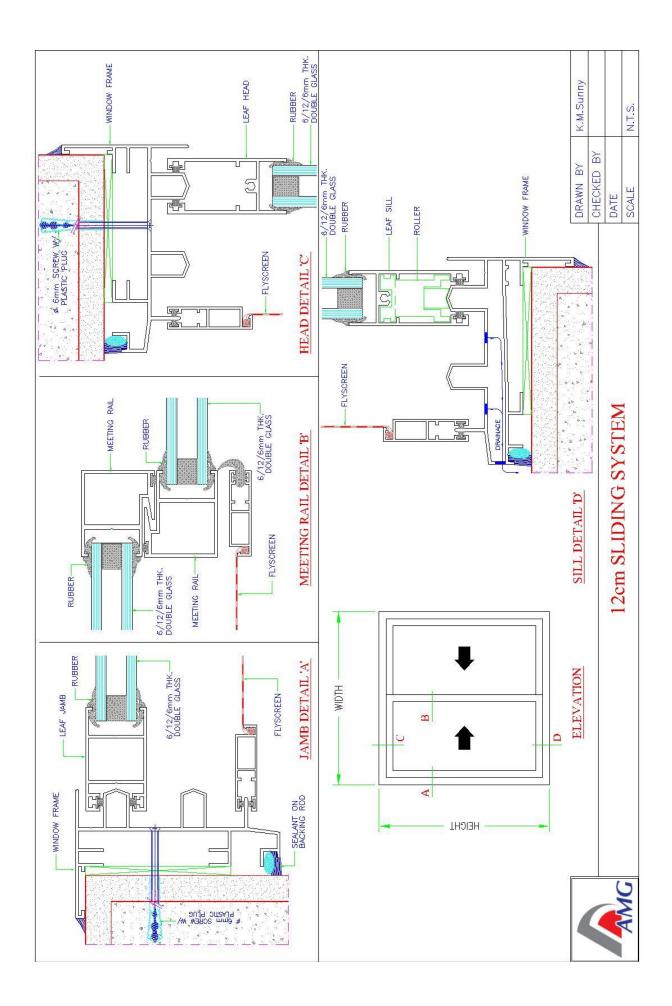


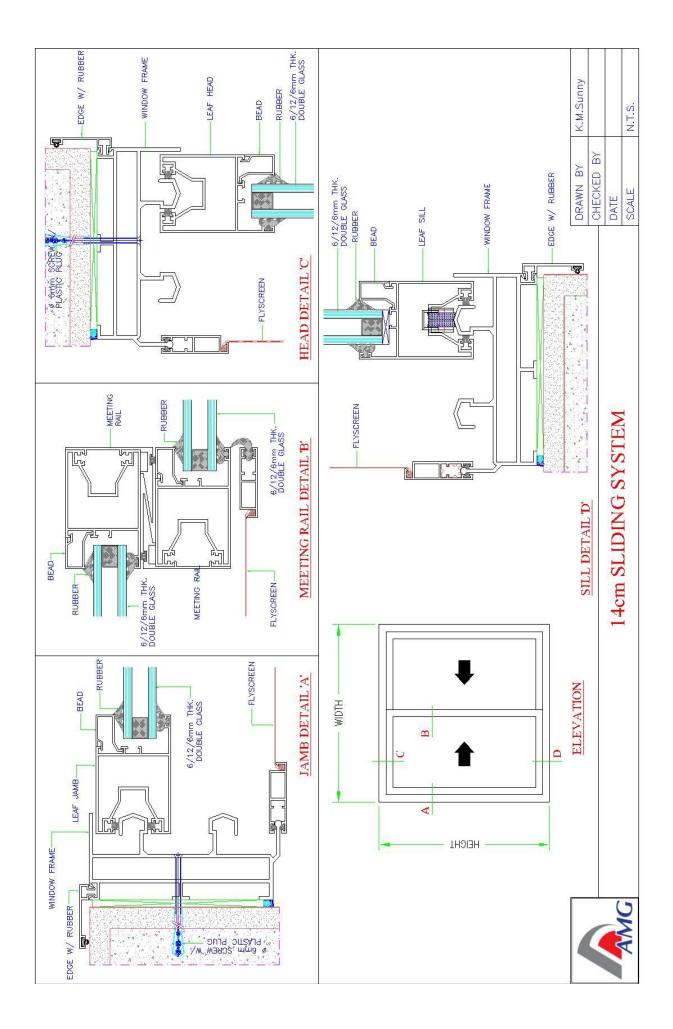
SYSTEM DRAWINGS

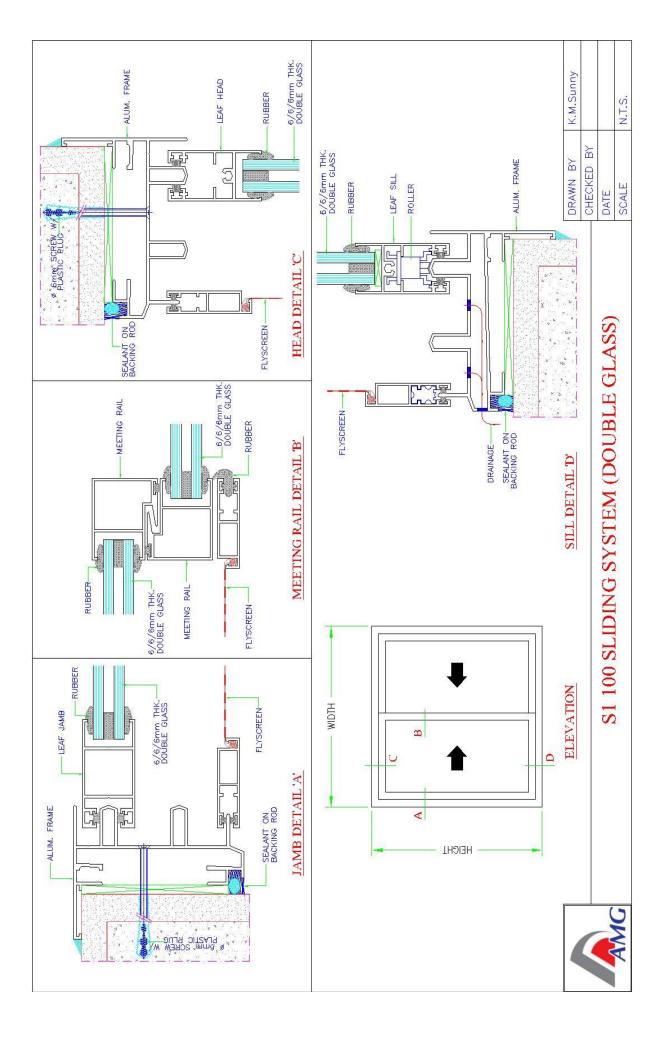


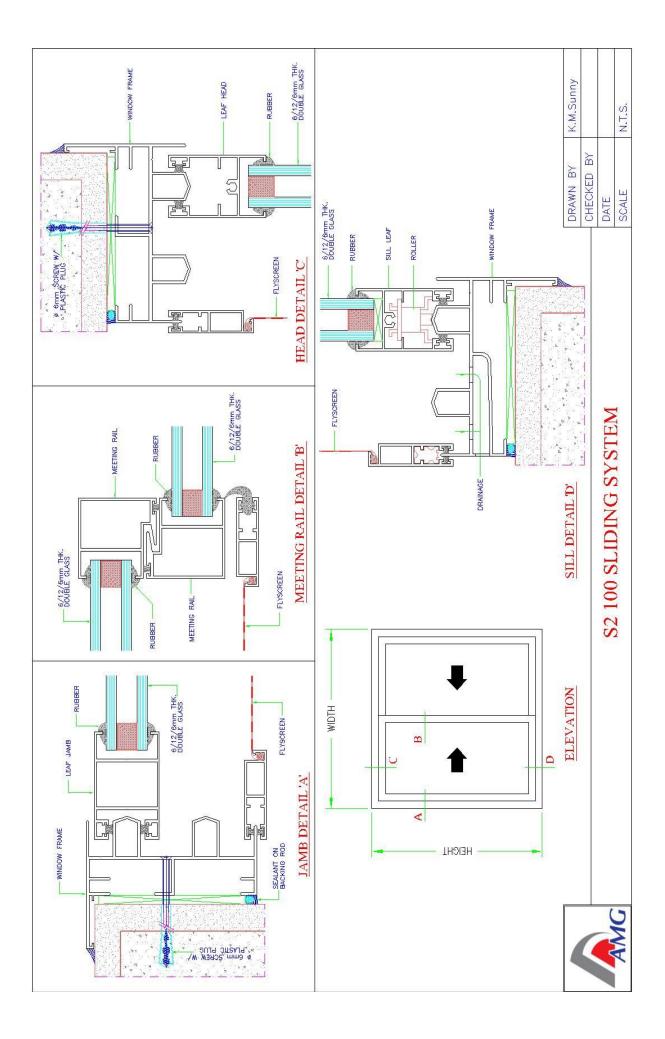


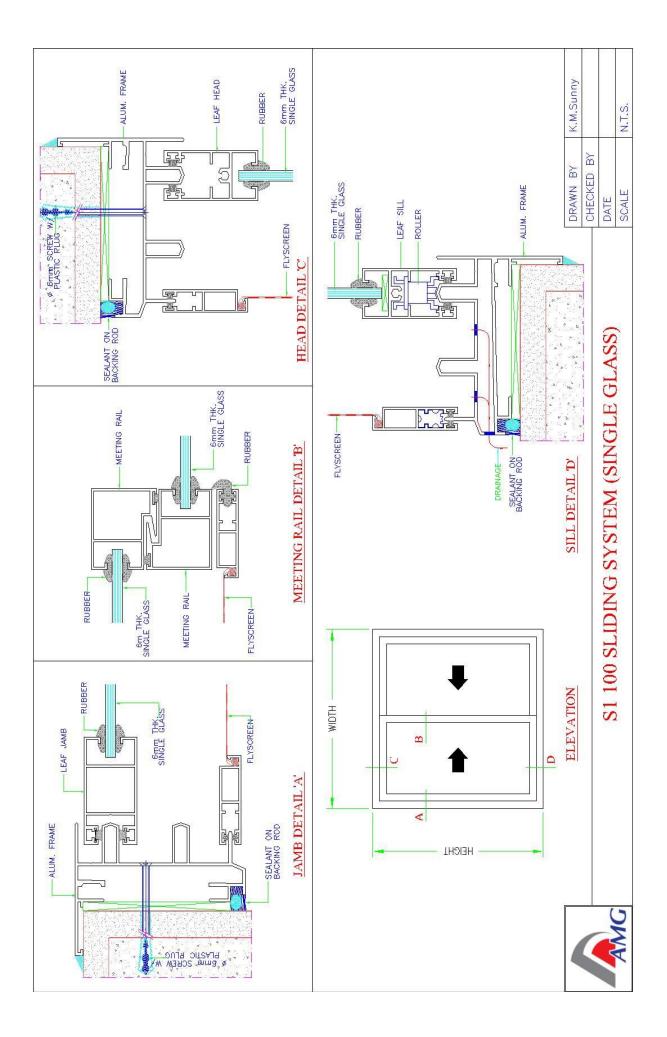
SLIDING SYSTEM

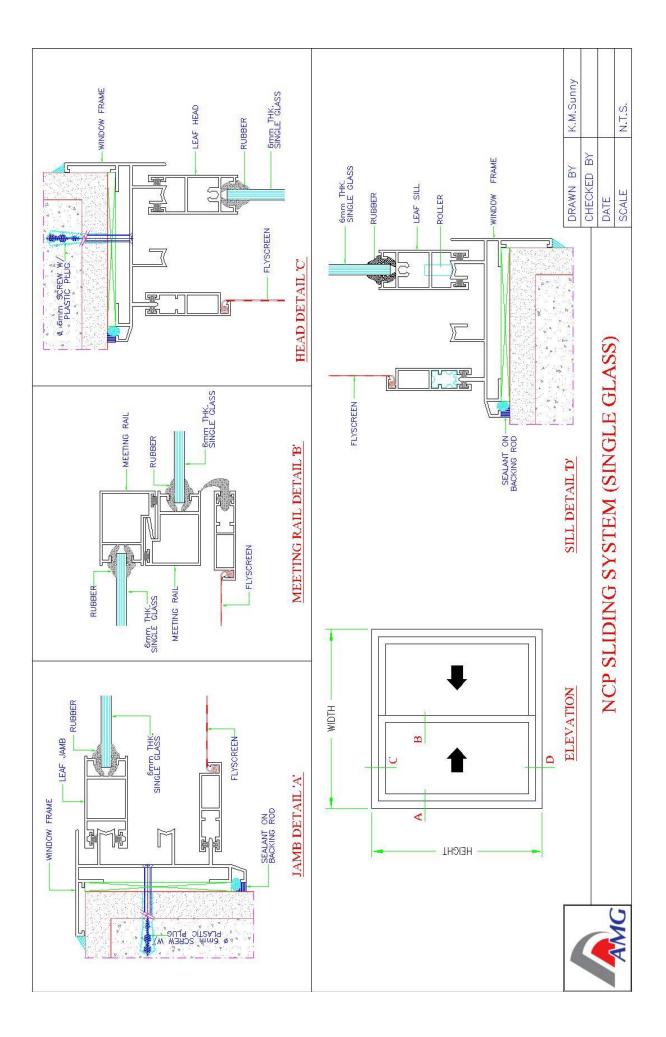


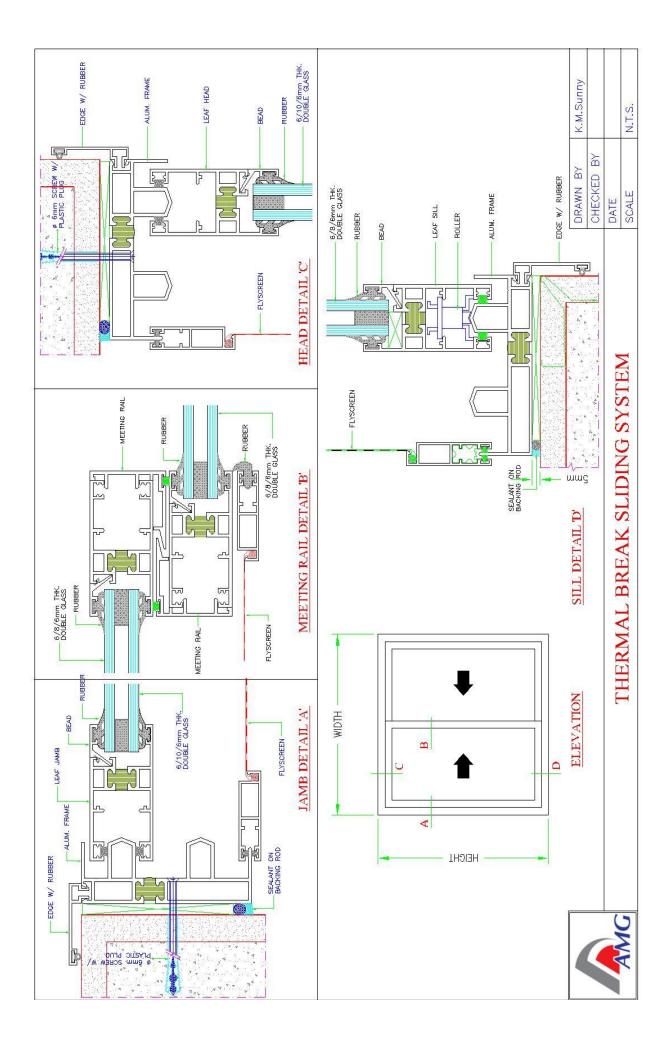


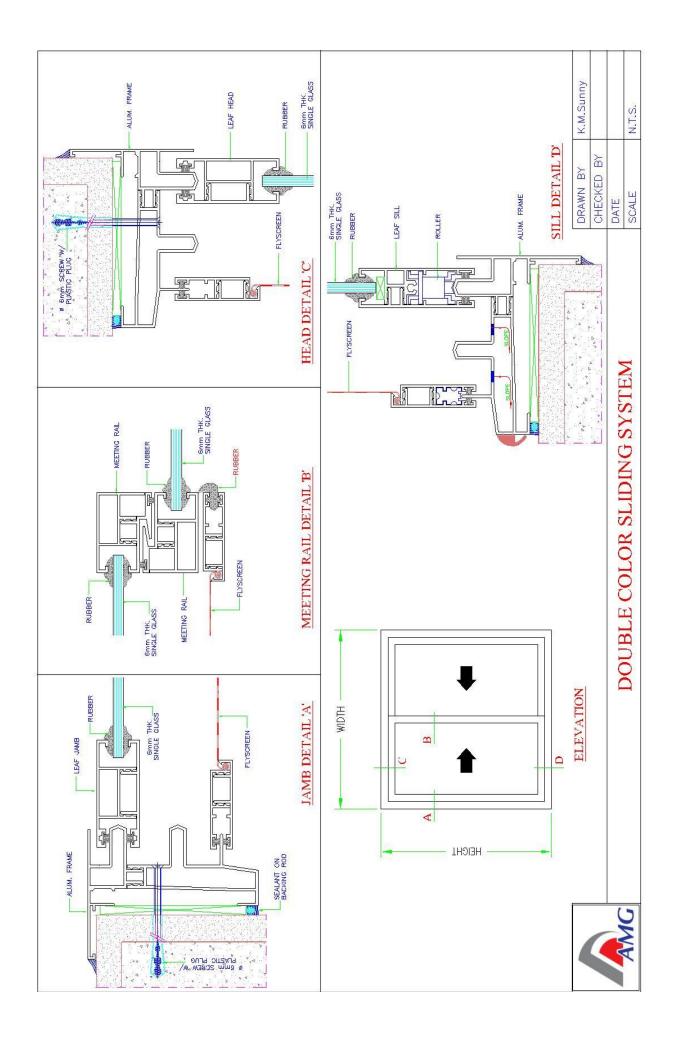


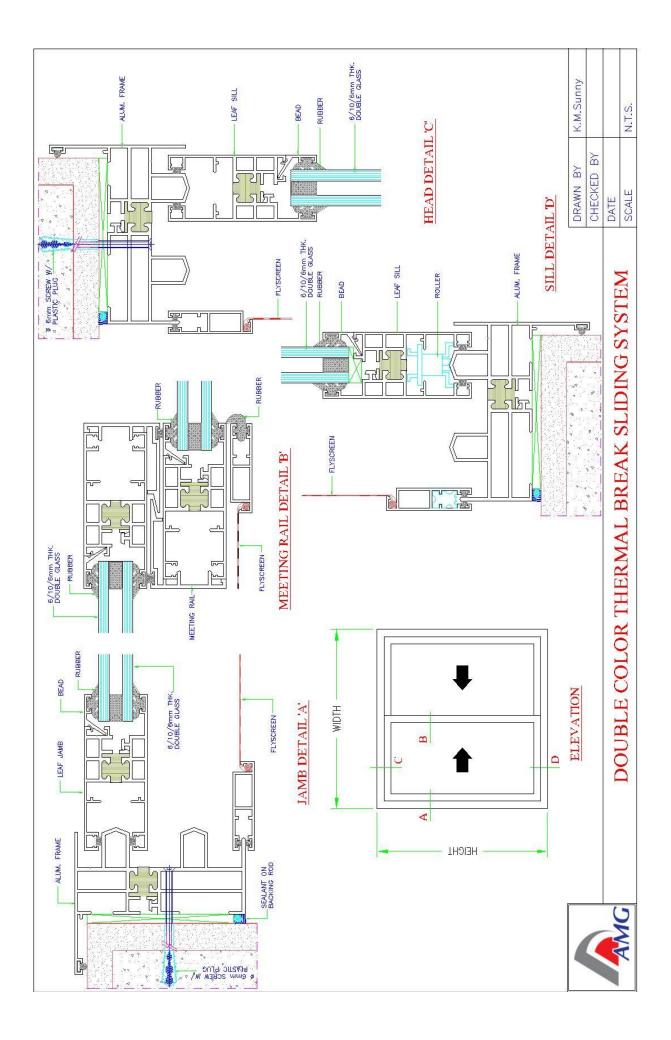




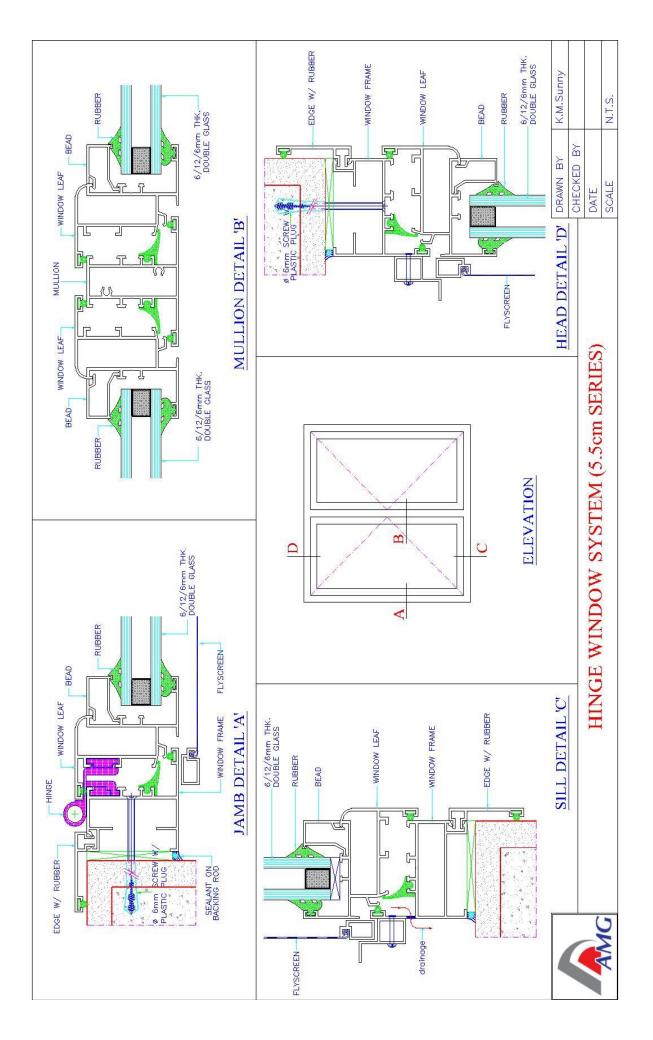


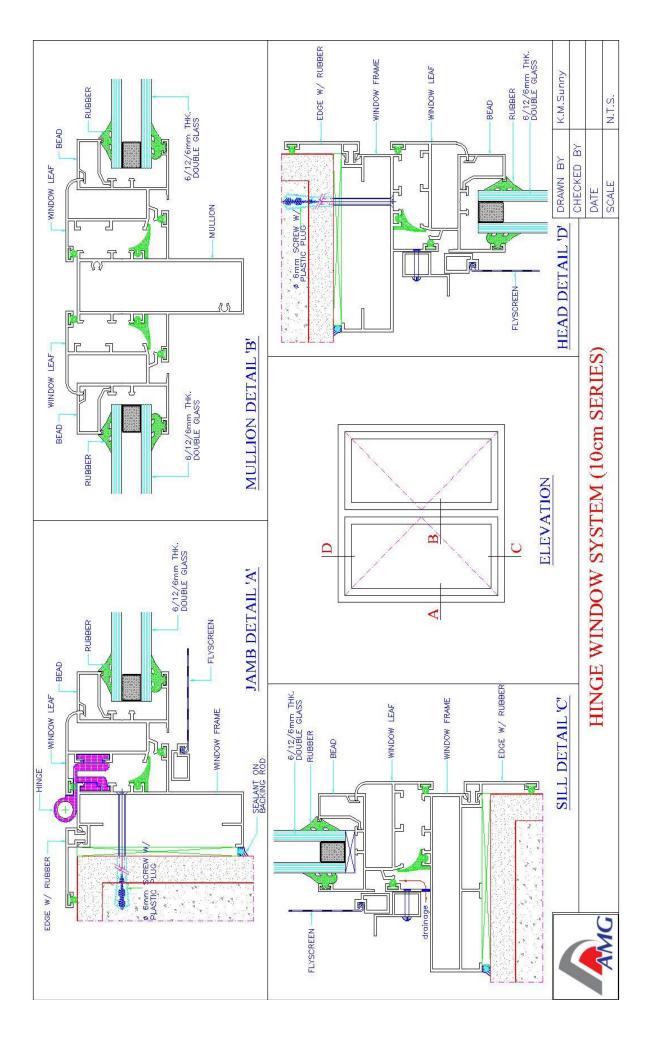


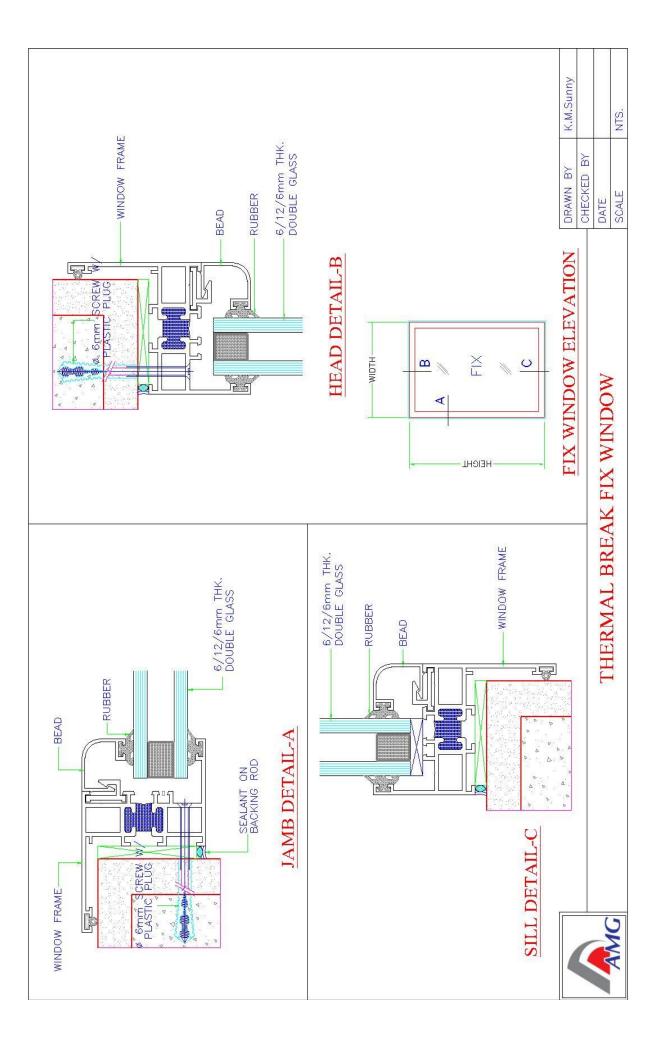


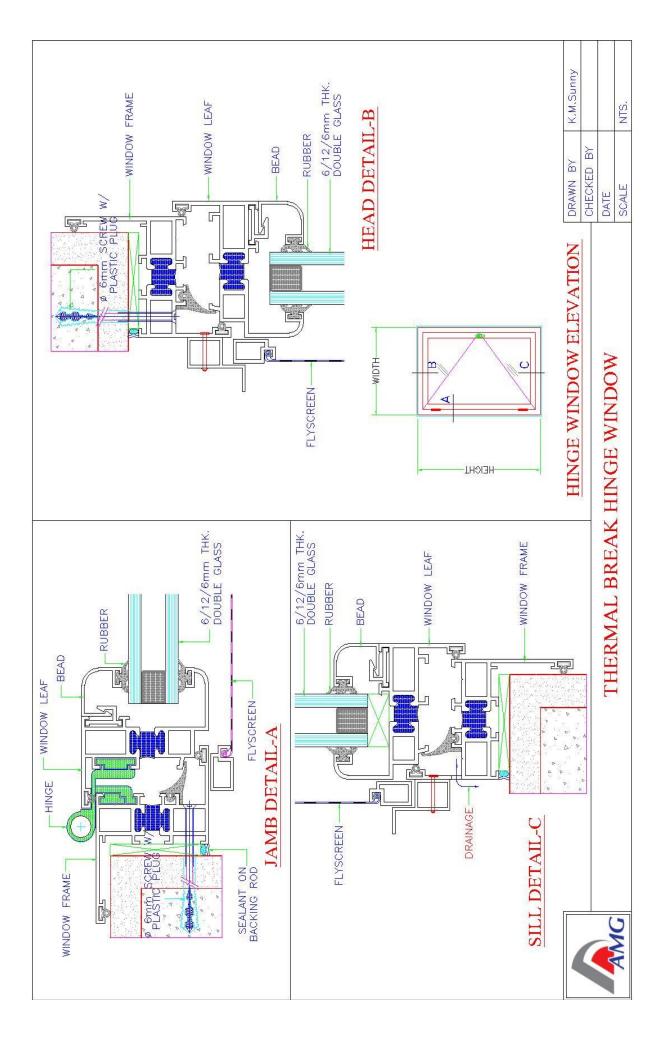


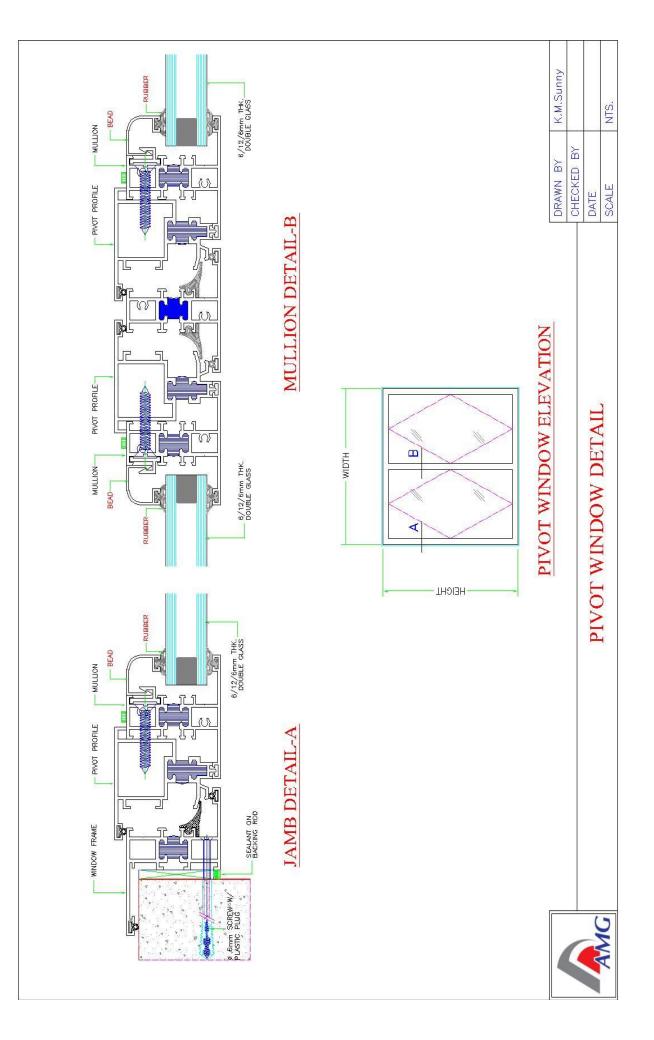
WINDOW SYSTEM

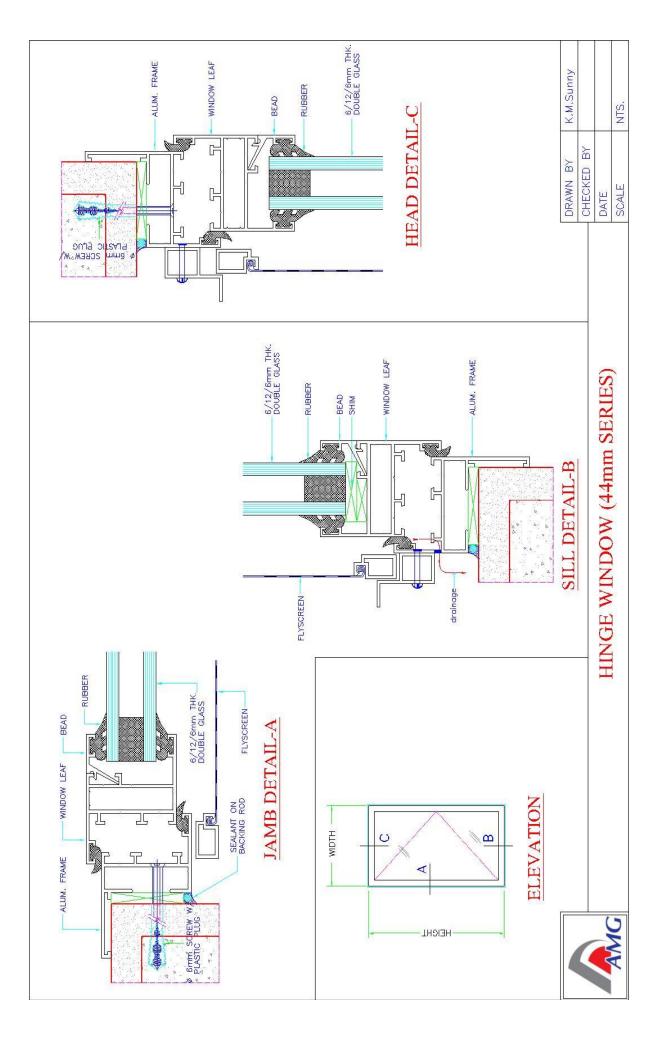


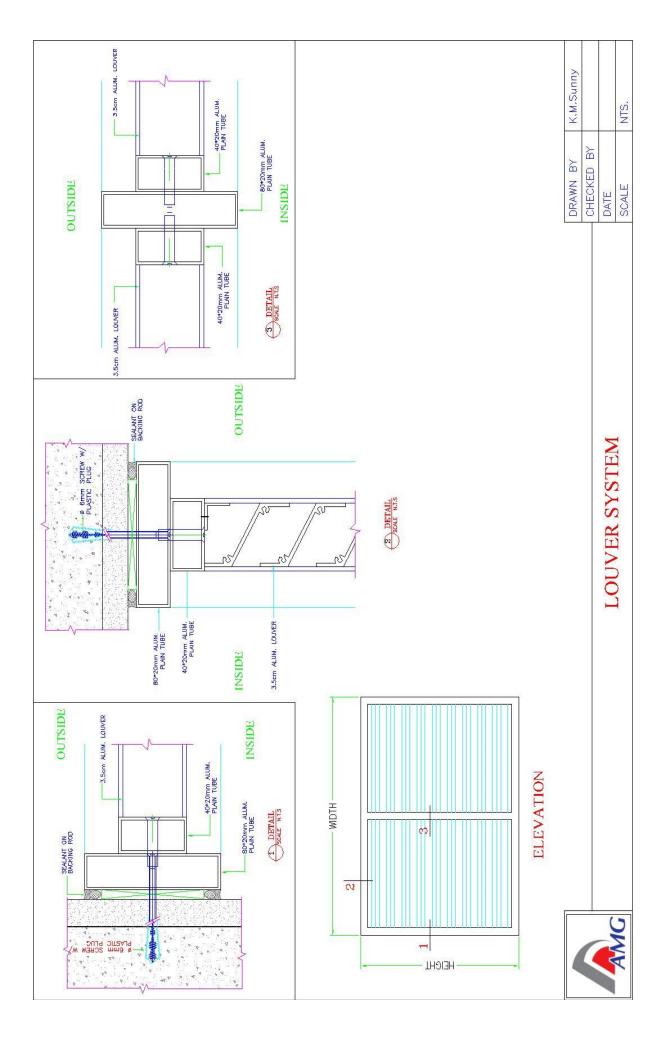




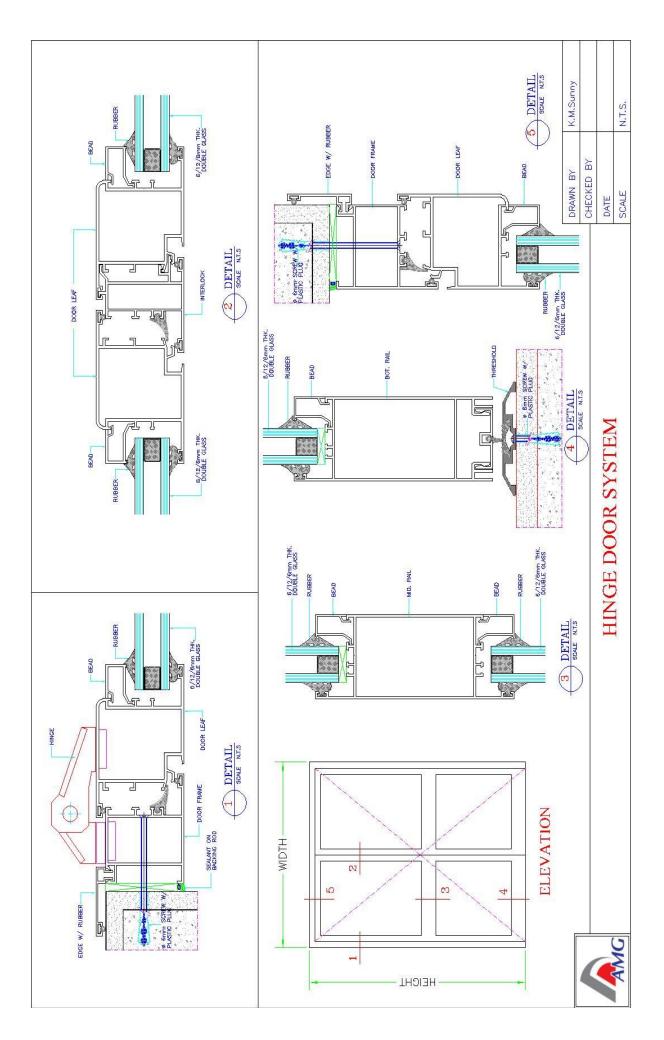


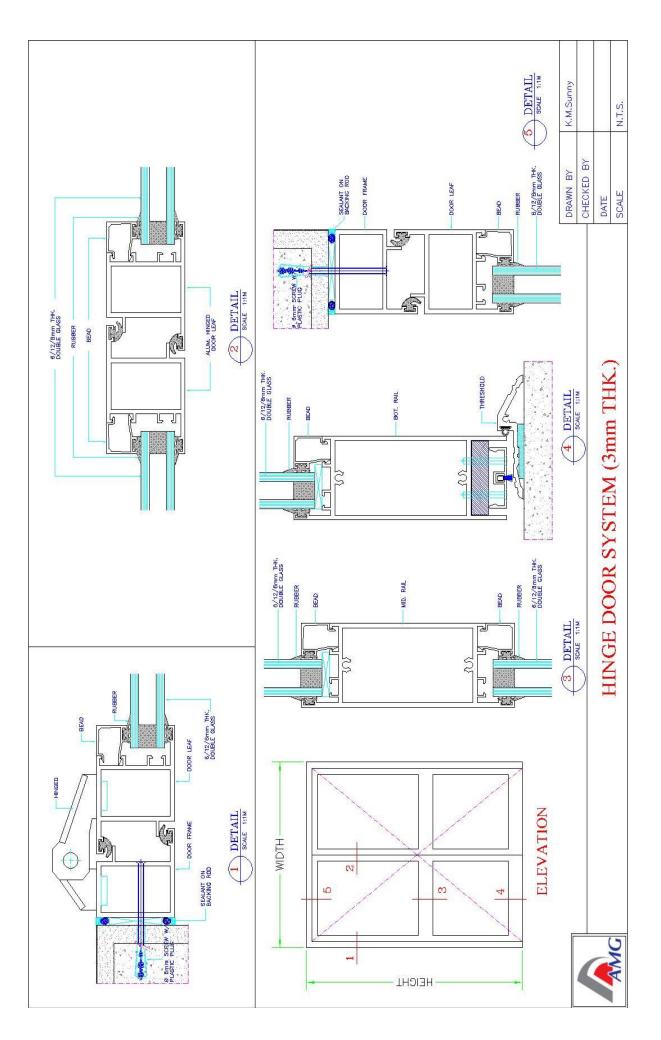


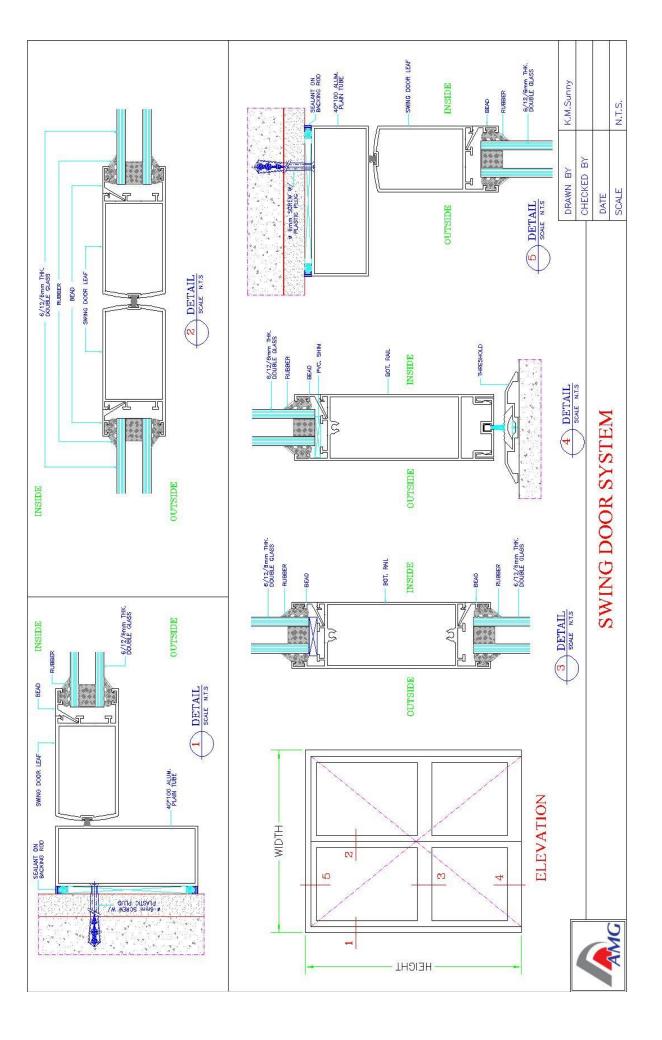


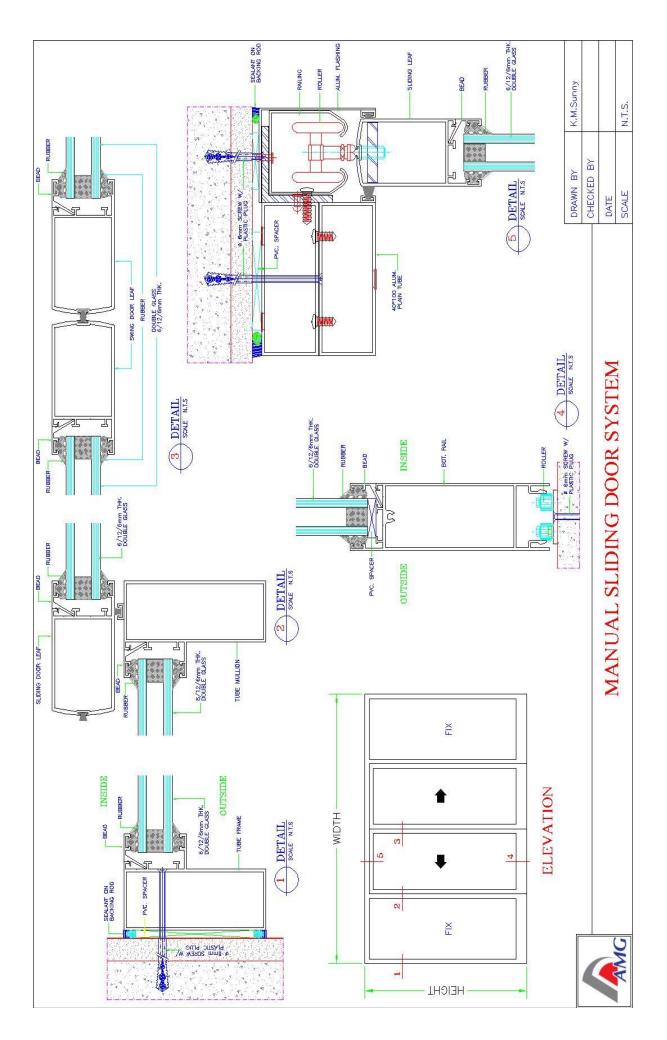


DOOR SYSTEM

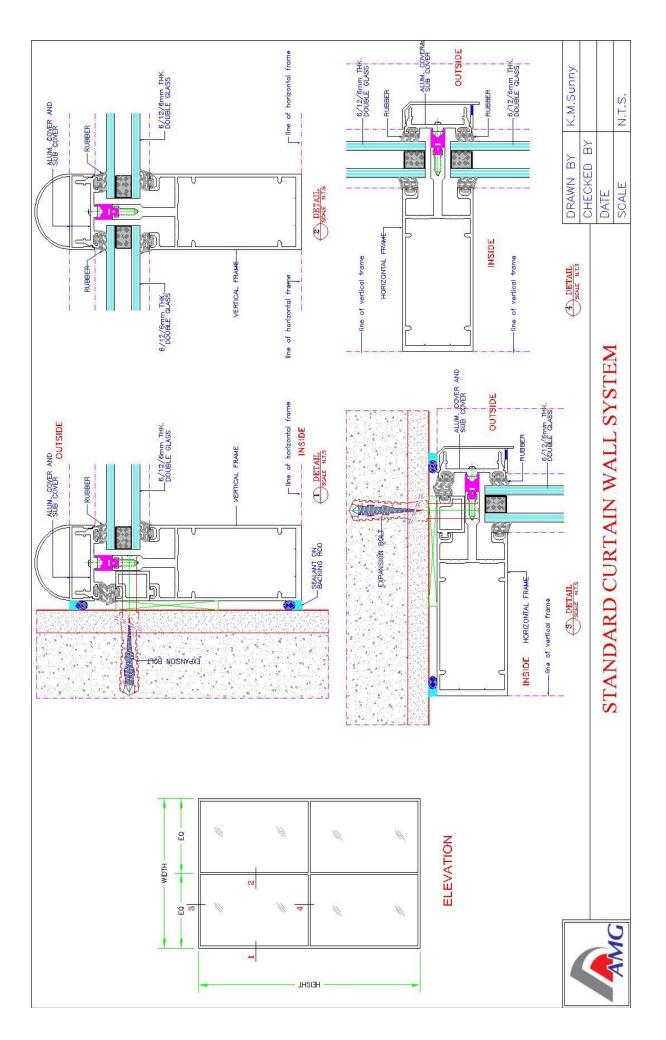


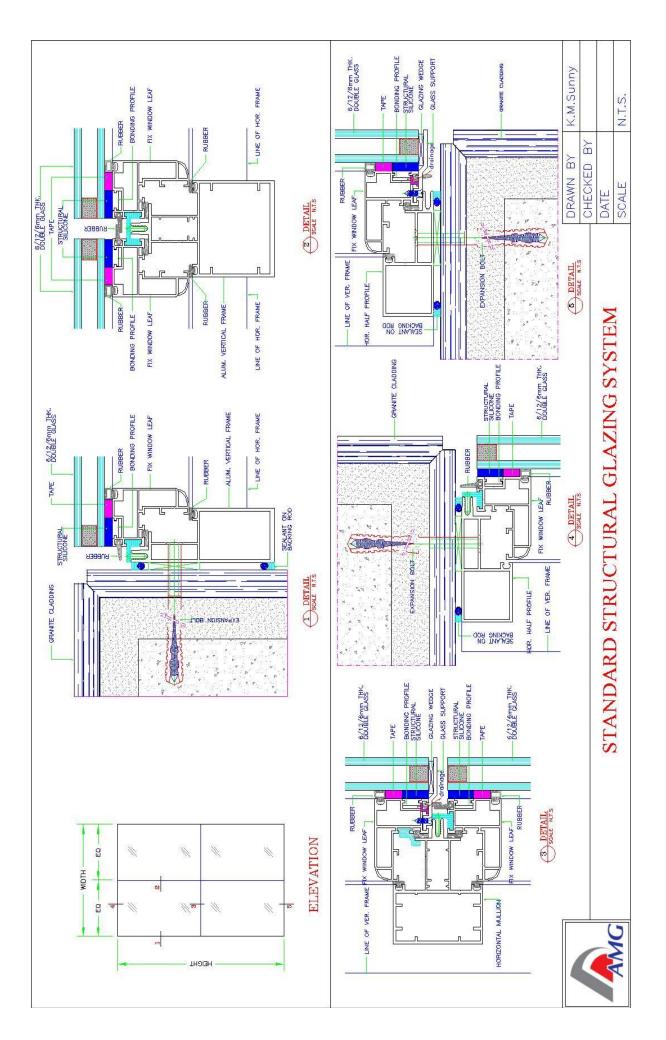




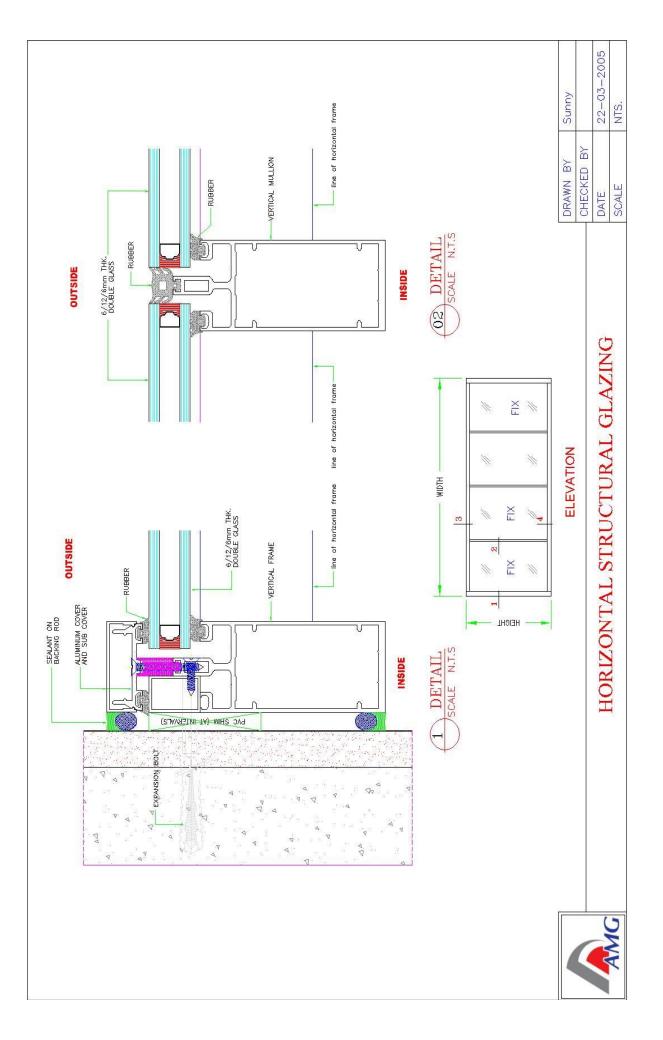


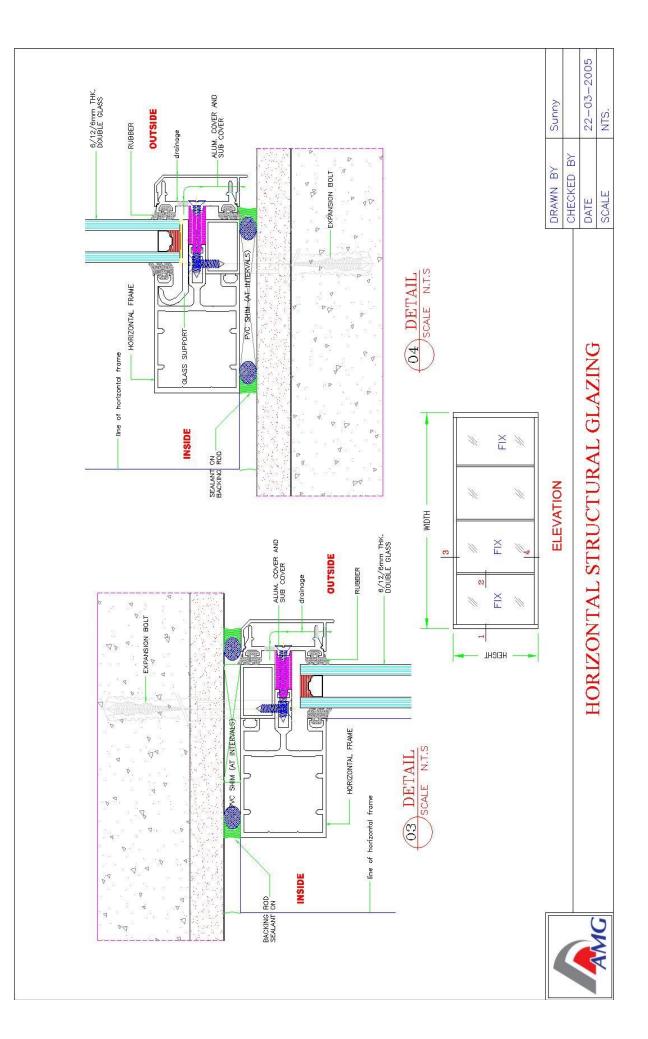
STANDARD CURTAIN WALL SYSTEM





STRUCTURAL CURTAIN WALL SYSTEM

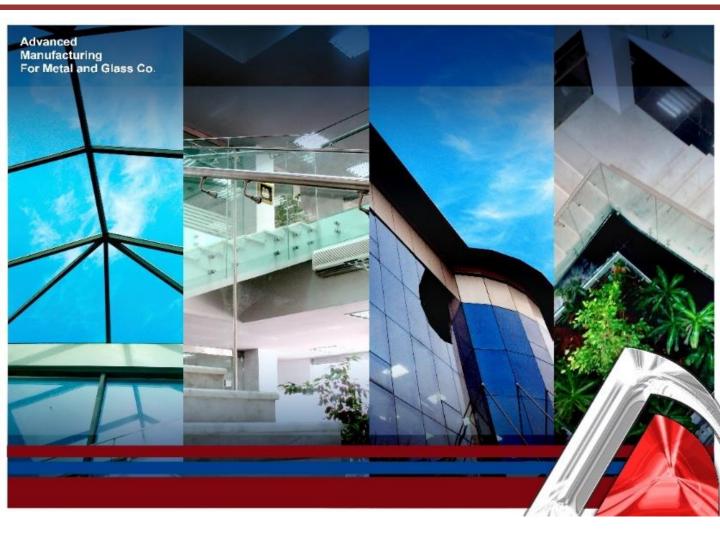




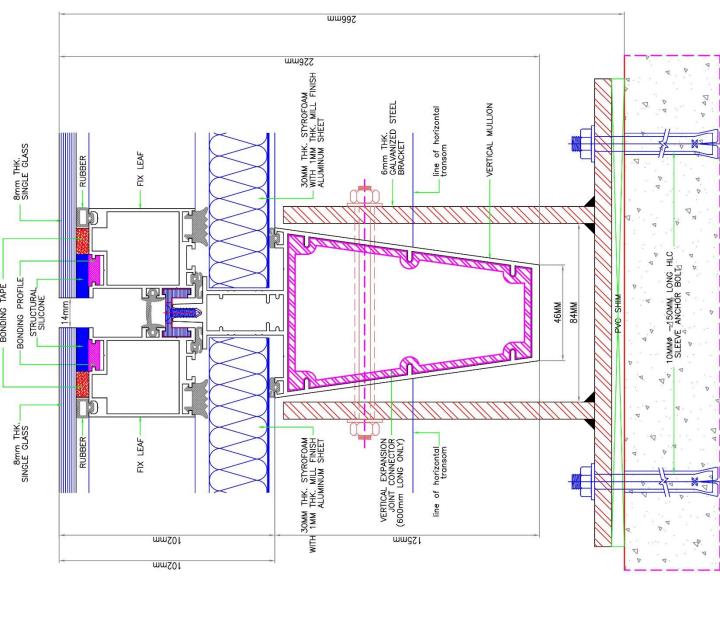


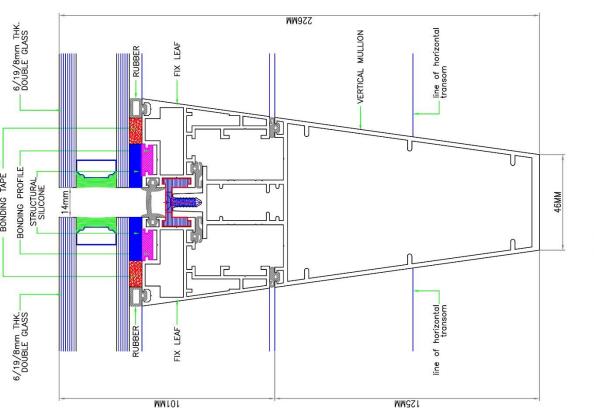
CUSTOM MADE DESIGNS









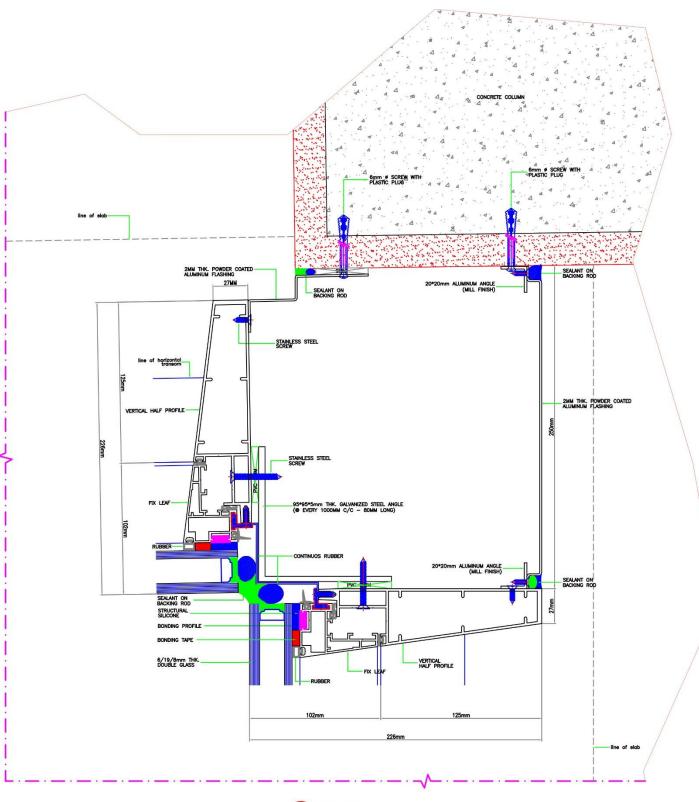


DETAIL

5

1:1

SCALE



24 DETAIL SCALE 1:1



STAINLESS STEEL













TEST REPORTS





Name of Project: Location: Clients: AL JAWHARA TOWER Jeddah, KSA Damac Properties Ltd.



Façade Testing & Advisory Services

Plot 598-221, Dubai Investments Park, Jebel Ali P.O. Box 34924 Dubai, United Arab Emirates T: +971 (0) 4 886 8715 F: +971 (0) 4 885 6795 <u>http://www.exova.com</u>

Testing, Advising, Assuring

On-Site Hose Water Penetration Te	st - Report
AFE's Client: Advanced Manufacturing for Metals and Glass	Date: 04 May 2016
Project: Al Jawhara Tower, Jeddah, KSA	AFE Project No: PD105049
Report no: SR0605 Rev.0	Total no of Pages: 6 + 4

1 Introduction

This report describes the hose test performed on installed façade, by Al Futtaim Exova (AFE) - Façade Testing & Advisory Services in Dubai at the request of Advanced Manufacturing for Metals and Glass.

The tests were carried out on 24th and 25th April 2016 and witnessed wholly or in part by:

Yahya Rawzy Salama	-	AMG
Hassan Alshenohy	-	AMG

The tests were supervised by:

Arun Kumar M - AFE

This report relates only to the location tested and described herein:

2 System Description

The system tested was a portion of stick curtain wall installed in the following project in Jeddah, KSA.

Al Jawhara Tower

The test locations / joints were designated by Advanced Manufacturing for Metals and Glass.

3 Purpose of Testing

The tests are to determine the weathertightness of a façade system with respect to water penetration. The test method, was in accordance with this method statement and are in accordance with the following standard, except where modified herein.

Water penetration AAMA 501.2-09 (Hose test)

4 References

AFE method statement DMH2348/MSrev0



5 Apparatus

The test was conducted using a nozzle that produces a solid cone of water droplets with a nominal spread of 30°. (AAMA 501.2 specifies a Type B-25, #6.030 with a 1/2 inch FPT as manufactured by Monarch Manufacturing Works.) The nozzle was used with a 3/4 inch diameter hose and was provided with a control valve and a pressure gauge between the valve and the nozzle. The pressure at the nozzle was adjusted to produce 30-35 psi at the nozzle inlet.

6 Test Procedure

The water was directed at the test section and perpendicular to the face of the wall. The nozzle was moved back and forth above approximately five (5) linear feet / 1.5m of the framing and joints, at a distance of 1 foot / 300mm from the most exterior surface of the wall for a period of five (5) minutes. The nozzle pressure was set to 30-35 psi.

Working from the exterior, the wall test section was selectively wetted, progressing from the lowest horizontal framing member. During the test, an observer on the indoor side of the wall checked for any leakage and noted where it occurred.

7 Performance Criteria

Water leakage is defined as any uncontrolled water that appears on any normally exposed interior surfaces, that is not contained or drained back to the exterior, or that can cause damage to adjacent materials or finishes. Water contained within drained flashings, gutters and sills is not considered water leakage. The collection of up to one half ounce of water (**15 ml**) in a five minute test period on top of an interior stop or stool integral with the system shall not be considered water leakage.

8 Test Results / Observations

Date	Location	Result	Observations
24 Apr. '16	Location #1, Horizontal and Vertical joints, East Elevation, Level 27,Flat no 2701 as marked up in drawing no. AMG-ALU-JAWH-AB-10 Rev. 0 attached. Tested areas are marked up in red.	Pass	No water ingress was observed.
24 Apr. '16	Location #2, Horizontal and Vertical joints, East Elevation, Level 09,Flat no 0901 as marked up in drawing no. AMG-ALU-JAWH-AB-10 Rev. 0 attached. Tested areas are marked up in red.	Pass	No water ingress was observed.



25 Apr. '16	Location #3, Horizontal and Vertical joints, North Elevation, Level 35,Flat no 3502 as marked up in drawing no. AMG-ALU-JAWH-AB-09 Rev. 0 attached. Tested areas are marked up in red.	Pass	No water ingress was observed.
25 Apr. '16	Location #4, Horizontal and Vertical joints, West Elevation, Level 35,Flat no 3502 as marked up in drawing no. AMG-ALU-JAWH-AB-11 Rev. 0 attached. Tested areas are marked up in red.	Pass	No water ingress was observed.
25 Apr. '16	Location #5, Horizontal and Vertical joints, North Elevation, Level 30,Flat no 3001 as marked up in drawing no. AMG-ALU-JAWH-AB-09 Rev. 0 attached. Tested areas are marked up in red.	Pass	No water ingress was observed.
25 Apr. '16	Location #6, Horizontal and Vertical joints, South Elevation, Level 37,Flat no 3706 as marked up in drawing no. AMG-ALU-JAWH-AB-08 Rev. 0 attached. Tested areas are marked up in red.	Pass	No water ingress was observed.
25 Apr. '16	Location #7, Horizontal and Vertical joints, East Elevation, Level 37, Flat no 3706 as marked up in drawing no. AMG-ALU-JAWH-AB-10 Rev. 0 attached. Tested areas are marked up in red.	Pass	No water ingress was observed.
25 Apr. '16	Location #8, Horizontal and Vertical joints, South Elevation, Level 27,Flat no 2708 as marked up in drawing no. AMG-ALU-JAWH-AB-08 Rev. 0 attached. Tested areas are marked up in red.	Pass	No water ingress was observed.

Note: Tests were conducted only at the areas where access was available from inside as marked in the elevation drawings.

We understand from AMG that hose tests were earlier conducted by AMG on the installed façade as part of their internal quality assurance process. However AFE was neither a party to it nor witnessed the test, hence this could not be verified.



APPENDIX A Photographs



Photo 1 Water penetration test in progress



Photo 2 Testing on the balcony façade

PD105049 SR0605 Rev. 0 AL Jawhara tower, KSA On-site Hose Water Penetration Test - Report

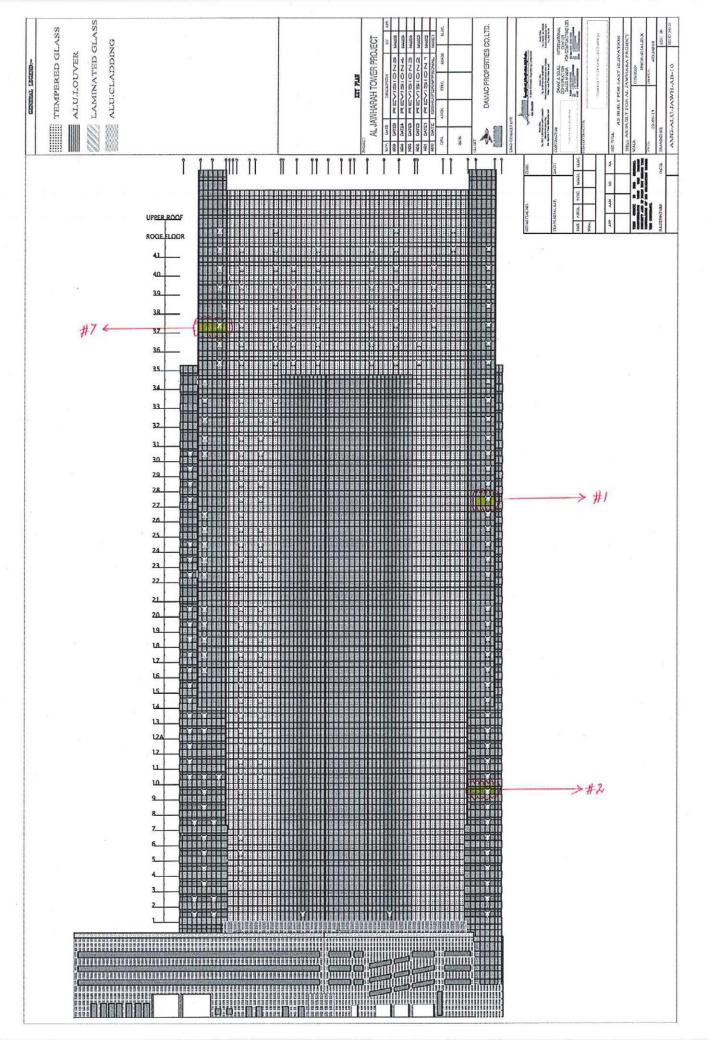


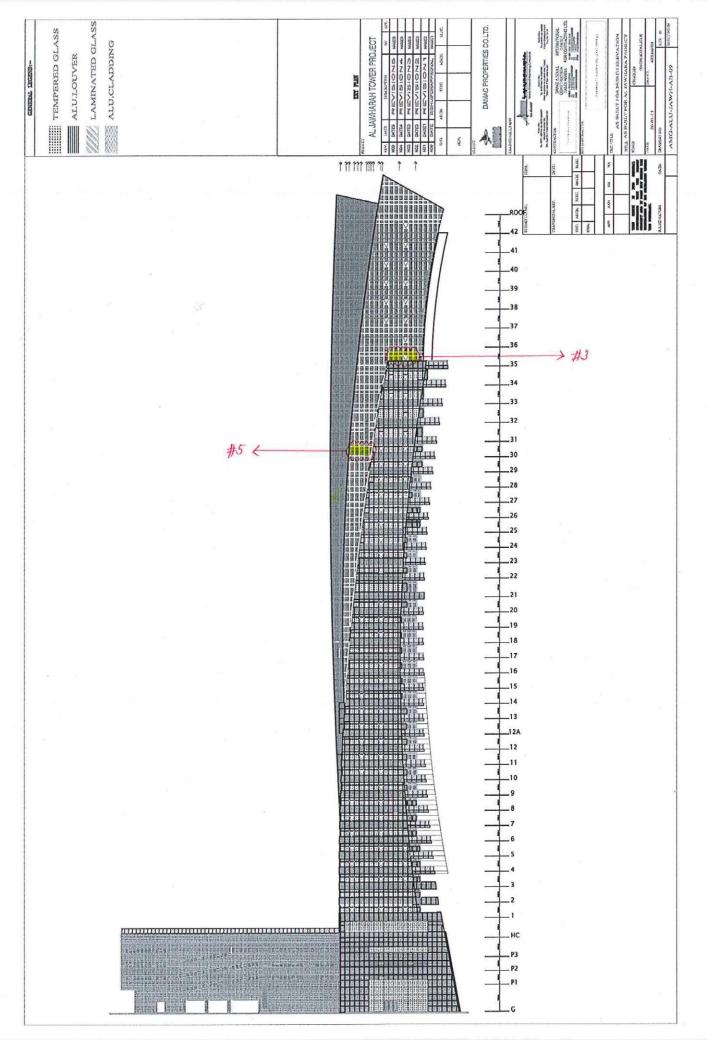
APPENDIX B Drawings

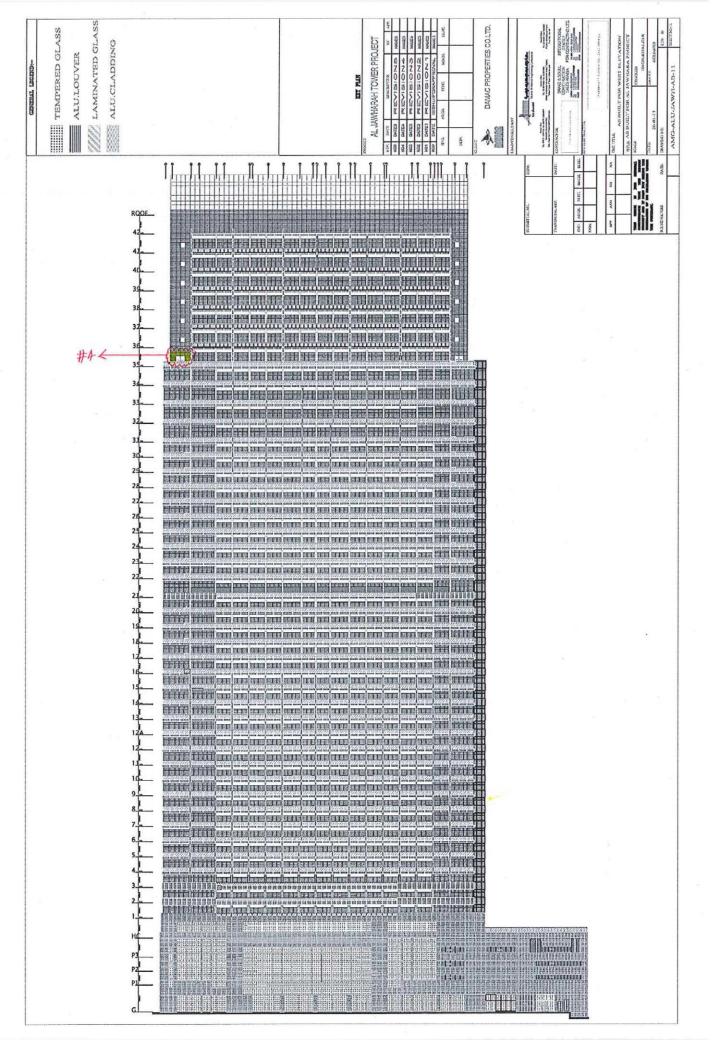
The following four un-paginated sheets are copies of Advanced Manufacturing for Metals and Glass drawings numbered below, showing the test locations.

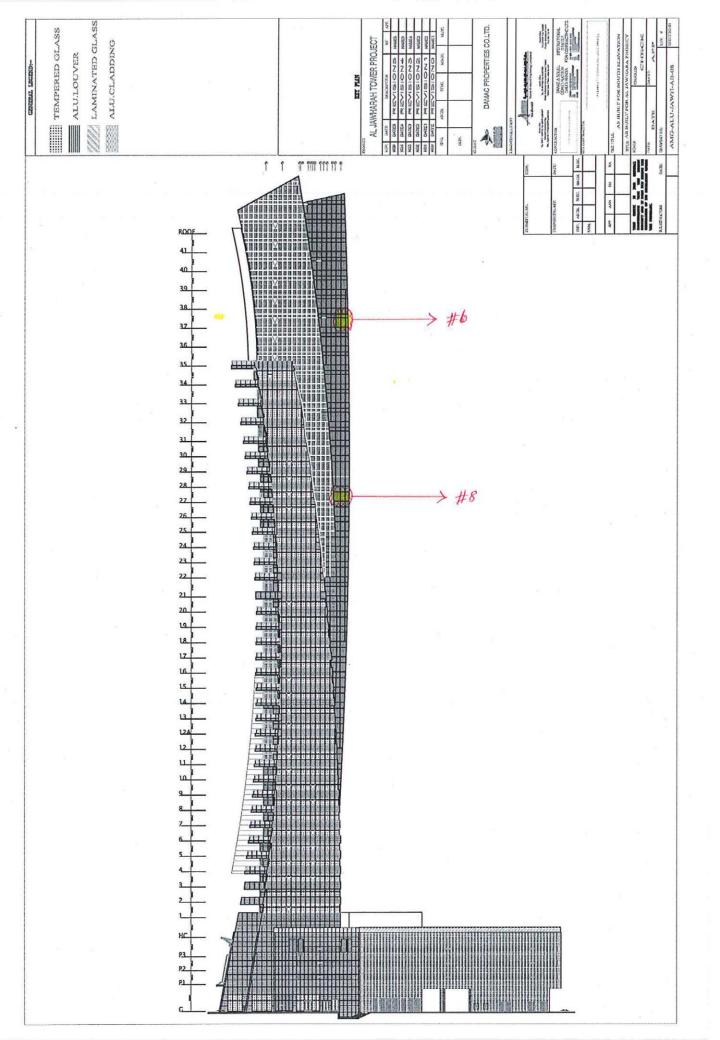
- AMG-ALU-JAWH-AB-08
- AMG-ALU-JAWH-AB-09
- AMG-ALU-JAWH-AB-10
- AMG-ALU-JAWH-AB-11

PD105049 SR0605 Rev. 0 AL Jawhara tower, KSA On-site Hose Water Penetration Test - Report Page 5 of 6











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Rev	Anthony	Reviewer		Approved for Issue		
No.	Author	Name	Signature	Name	Signature	Date
0	Arun Kumar M	Ranjith P. Operations Manager		Manoj Kumar Laboratory Manager	NF	04/05/14
						Al-Funtaine Exoval
D105049		AL Jawhara	a tower, KSA		Sec.	Page 6 of 6

Table 1 Document Status

PD105049 SR0605 Rev. 0 AL Jawhara tower, KSA On-site Hose Water Penetration Test - Report Name of Project: Location: Clients: DAMAC TWIN TOWER Riyadh, KSA Damac Properties Ltd.



Façade Testing & Advisory Services

29 September 2016

То	Advanced Manufacturing for Metal & Glass	Tel. / Fax	By email
Attention	Khalid Kashef	Fax ref.	CLF14614
From	Akhil Chacko	AFE tel.	04 886 8715
Email	Akhil.Chacko@Exova.com	AFE fax	04 885 6795
Project	Damac Twin Residence Towers, Riyadh	Pages	1
Subject	Preliminary Test Report		

Dear Sir,

As requested, please find the following results of the laboratory main tests performed on the above mentioned sample on 25th September 2016.

The test methods were in accordance with the AFE - Façade Testing & Advisory Services method statement DMC2385/Msrev0 and were in accordance with the following standards:

D	Air infiltration	ASTM E283-04
D	Water penetration (static pressure)	ASTM E331-00
D	Wind resistance	ASTM E330-14
Þ	Water penetration (dynamic pressure)	CWCT Section 7
D	Inter-storey displacement (left/right)	AAMA 501.4-00
D	Inter-storey displacement (up/down)	Project specific

The following table summarises the main tests performed on the above mentioned sample:

· - Pass	-
Pass	Air infiltration readings were
	Air infiltration readings were within allowable limits.
Pass	No water ingress was observed.
Pass	No water ingress was observed.
pility Pass	Deflections were within allowable limits.
Pass	No water ingress was observed.
up Pass	No visual damage was observed.
left Pass s	No visual damage was observed.
	Pass pility Pass Pass up Pass eft Pass



25 Sept. '16	Static air pressure water	Pass
	penetration @ 1429Pa	

No water ingress was observed.

This is only a preliminary report supplied at the request of Advanced Manufacturing for Metal & Glass. AFE accept no responsibilities in the way in which these results are used or interpreted. A comprehensive report containing the sample details, drawings, any variations from the drawings, photographs and other test conditions will be issued two weeks after the completion of the test sequence.

Yours faithfully, Al Futtaim Exova (AFE),

Akhil Chacko

Project Engineer - Façade Testing & Advisory Services

Name of Project: Location: Clients: Rafal Living Tower Riyadh, KSA DSACC Meinhardt Façade Technology Gold and Diamond Park Building 5 Office 125-126 PO Box 282478 Sheikh Zayed Road, Dubai





RAFAL LIVING PROJECT Riyadh, KSA

PMU Final Test Inspection Report # 01

Project Title : RAFAL LIVING PROJECT

Project No. : MFDB-16-80019

PMU Test Date: 25th & 26th July 2018

Inspection for the Dismantling of PMU Specimen: 1st August 2018

To:	Name:	Company:	Email:
	Imad Kharouf	RAFAL	imad.kharouf@rafal.com.sa
	Mohammed Jabr	ERGA	moj@ergasaudi.com
	Paul Grove	MFT	Paul.grove@mfacade.com
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Date	Revision	Prepared By	Checked By	Approved By
25 th & 26 th July 2018 & 1 st Aug. 2018	Rev 0	ET/JB	DC/PG	DC/PG

Meinhardt Façade Technology Gold and Diamond Park Building 5 Office 125-126 PO Box 282478 Sheikh Zayed Road, Dubai



3.0 CONCLUSION

3.1 SUMMARY OF TESTS AND RESULTS

Test Description	Test Date	MFT's comment
Air Infiltration & Exfiltration Test	25 th July 18	Failed
Air Infiltration & Exfiltration Re-Test	25 th July 18	Passed
Static Water Penetration Test	25 th July 18	Passed
Wind Resistance (Serviceability) Test	25 th July 18	Passed
Repeat Air Infiltration & Exfiltration Test	25 th July 18	Passed
Repeat Static Water Penetration Test	25th July 18	Passed
Wind Resistance (Safety) Test	25 th July 18	Passed
Impact Test	26 th July 18	Passed
Controlled Dismantle	1 st Aug. 18	Passed

3.2 GENERAL

Notwithstanding the above, the Independent Test Report of AI Futtaim Exova should be reviewed for the details of test results, as well as test methodology.

---End of Report---