

# uPVC Profile Extrusion uPVC Door & Windows



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## ***INTRODUCTION***

AI Mimari Industrial Co. L.L.C., prides itself to be the pioneer in the extrusion of PVC-U windows and doors in the U.A.E. as well as the leader in its manufacture. It is the first factory in the Middle East which uses a Special formulation for hot climate, tested and certified in Saudi Arabia, Qatar, Oman, Bahrain, Yemen, Egypt and the Emirates. Primarily situated in the Industrial Area in Mussafah, it is establishing itself as a market leader in term of unrivalled product quality, research and development and customer service and support. Because of its technically equipped factory, AI Mimari can be able to offer you the finest PVC-U systems available today. You can be assured that our windows and doors will be built to last and shall be manufactured to the highest specifications. We have completed more than 25 thousand villas in the UAE, and other Middle East countries.

## ***International Affiliation***

AI Mimari together with its partner, General Industry Corporation (Industrial Development Fund) have established an agreement with Theyson Extrusion Technik (Austria) and Plus Plan (Germany) which has more than 50 years of experience in the plastic business to provide a complete service for the PVC-U industry, covering the design and manufacture of extrusion lines and tooling as well as windows and doors systems.

A modern production environment exists at AI Mimari's site which comprises of approximately 10,000 sq. meters of extrusion, production offices and warehousing. In there currently operates profiles extruders, windows and doors, assembly and lab testing. The company is committed to investing state-of-the-art extrusion technology and new tooling designs, continually improving its modern production infrastructure.

## ***Comprehensive Product Range***

AI Mimari is pleased to present its collection of stylish, long lasting and high security uPVC products. Its dedication to new product research and development has prompted it to produce one of the most of innovative and comprehensive product ranges in the industry. This range is ideal for any installation or application, from public sector to private sector, commercial to domestic or new build to refurbishment. The company also operates in collaboration with AUBI (Germany) for its fittings and hardware requirement. Both companies work closely together to supply customer with its total service and satisfaction.



### *Quality Assured*

The quality of our products are assured by an array of internationally recognized accreditation notably from BSI, BBA, DIN, and RAL.

Experience with U.P.C.V window profile in hot climates

Thirty years ago people were asking whether UPVC is really suitable for window profile.

Well after 30 years of outstanding success, the answer today is a clear

Yes - at least for European type climates. But is it true for every climate?

The answer appears to be yes again, given the fact that the use of UPVC windows is growing rapidly throughout the world.

Of course molding compounds must be formulated to suit a particular climate. We will restrict our analysis to white UPVC profile. In the sun, white material heats up less than coloured and so undergoes less expansion.

The weathering resistance of coloured profile may also be inadequate owing to very high surface temperatures and the use of unsatisfactory pigments.

The demands on the outdoor performance of UPVC climb up with increasing air temperature and UV radiation.



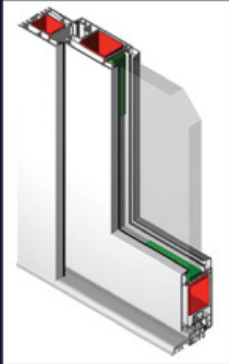




### *Characteristics*

Al Mimari uPVC window and door system has been designed to provide total flexibility, offering a complete choice of styles, shapes and sizes. The visual appearance is elegant, simple and keeping with the latest architectural requirements. The technical performance conforms to all British and European Institutions' Standards – including BSI, the BBA, DIN, RAL etc.

Al Mimari profile system has been engineered to provide the following:



- Profile outer walls of 3mm thickness for optimum structural strength.
- Multi-chamber profiles to ensure isolated drainage and reinforcement chambers
- Purposed designed galvanised steel reinforcement to provide required rigidity where needed.
- Comprehensive range of glazing gaskets to cater for the majority of applications, including sound insulation glazing.
- Twin weather sealing for optimal resistance to draught and water penetration.
- Acceptance of a comprehensive range of fittings and hardware.
- The performance of both windows and doors has been successfully tested to exceed current security standards.
- Versatility in fabrication to enable both welded and mechanical joints.

### *Thermal Performance*

Al Mimari uPVC windows exceed the current requirements of building regulations concerning minimum U values and compliant to Estidama requirements for thermal insulation.

### *Material Properties*

The Al Mimari uPVC compound is an “impact modified” unplasticised rigid PVC extrusion compound having high impact strength complying with BS7413:1991

### *Impact Strength*

Profiles extruded from Al Mimari uPVC compound are outstanding for their resistance to fracturing which is particularly evident at extreme temperatures.

### *Weather Resistance and Colour Stability*

These uPVC profiles have outstanding weather resistance and colour stability. This has been a proven fact for more than twenty five years of actual use in Europe particularly in Germany.

### *Processability*

The uPVC compound is designed specifically for window profile extrusion, to be ‘manufacture friendly’ and ideally suited to the heat welding process.

### *Flame Resistance*

Al Mimari uPVC compound is combustion resistant in accordance with BS476:Pt6&7. The formulation guarantees flame resistance without the necessity for further additives and results in the material dubbed as ‘self-extinguishing’.



### **uPVC ADVANTAGES**

Al Mimari is proud to present its collection of stylish, long lasting, and high security PVC-U systems available today.

You can be assured that our doors and windows are built to last. Manufactured to the highest specifications of rigid PVC extrusion compound having high impact strength, the products will not discolour, pit or warp.

Doors and windows manufactured from the same material have been fitted for over 30 years and in climatic conditions as diverse as Scandinavia and North Africa With no adverse effect.

#### **Advantages**

- The smooth silky finish is non-porous and virtually requires no maintenance other than a wipe clean with a damp cloth.
- All corner joints are welded and fully watertight.
- PVC-U needs no painting or staining even when a surface foil is applied to provide a colored or wood grain effect.
- All hardware, gaskets, weather-strips and glazing can be easily replaced without removing the frame from the structure.
- Manufactured using a 'self-extinguishing' PVC-U material, for safety in case of fire.

#### **Durability**

PVC-U frames do not rot, rust or corrode and as it does not absorb moisture, it will not warp, twist or split.

'Impact modified' PVC-U is treated with special additives making it extremely tough and durable.

#### **Insulation**

PVC-U frames have high thermal and acoustic insulation performance which can further be enhanced by the use of special sealed glass units.

#### **Combustion Resistant**

PVC-U frames will only burn when deliberately subjected to an external heat source. Once the heat source is removed, the flames will automatically extinguish.

#### **Design Capabilities**

An array of the most existing and traditional styles can be reproduced using PVC-U window designs.

#### **Environment-friendly**

PVC-U frame materials are absolutely recyclable, energy efficient and have no adverse effect on the rainforests.

#### **Cost Competitive**

PVC-U windows and doors are both long lasting and virtually no maintenance making it the most cost effective choice of material for builders.



## uPVC Technical Data

<b>Material</b>	Unplasticised high impact resistant rigid PVC extruded material corresponding to BS 7413:1991
<b>Outer wall thickness</b>	3mm nominal
<b>Glazing</b>	Single or double fully insulated, noise reduction and thermal protection glazing
<b>Glazing Methods</b>	A) Post co-ex bead gaskets complimented by counterbalanced gaskets conforming to BS7412:1991 B) Twin counterbalanced glazing gaskets conforming to BS7412:1991
<b>Drainage system</b>	Face or concealed by means of separate pre-chambers
<b>Weather performance</b>	In accordance with BS6375 Pt1:1989
<b>Colour constancy</b>	Corresponding to BS7413:1991
<b>Installation</b>	Frames can be fitted directly to any new or existing structure by means of fixing brackets or special dowels
<b>Fittings</b>	Comprehensive range of fittings and hardware including those which are imported from Germany
<b>Mounting of fittings</b>	Via screw channel or steel reinforce profiles
<b>Reinforcement</b>	Sections are reinforced with galvanised steel sections linked to the PVC-U sections above certain sizes
<b>Profile joints</b>	Welded or mechanically joined
<b>Frame colour</b>	White / RAL colours & Wooden Laminated
<b>Maintenance/servicing</b>	PVC-U frames require only a wipe down with soap and water. Fittings needs occasional lubrication.





## Product Range

## أنواع المنتجات

### OUTSTANDING QUALITY IS JUST HALFTHE STORY.

Now Al Mimari can offer you a wider range of products - considered to be the best in Europe - greater choice and even more effort to ensure that all our manufactured products are always available when you need them. Take a closer look at the following to discover the products that we offer.

المعماري يمكنه أن يقدم لكم أشكال مختلفة ومتنوعة من منتجاته التي تعتبر الأفضل على الإطلاق

### SLIDING WINDOW AND DOOR SYSTEM:

This brings a new concept for your needs. With its perfect design and functioning in place, offers new options. It has a decorative appearance which is owed to soft lines and beads. Complementary symmetrical features. This type provides perfect insulation by the use of concealed wool pile fins, gaskets and adaptors. A selection of different beads allows the application of double or single glazing units. By the use of this system, practical and economical detail solutions are possible.

### نظام السحاب للشبابيك والأبواب-

وعملية يمكن الاختيار والتحكم بسماعة الزجاج (مفرد زو مزدوج)  
ذات شكل جميل



### TILT AND TURN SYSTEM :

This system offer alternatives suitable for every taste and budget, thanks to their soft-line aesthetic design and harmonious combinations. A contemporary styled internally beaded window or door which allows the sash profiles to both tilt and fully open inwards. The sash profiles offer a stepped to outer frame finish and ideally suited for commercial and domestic applications where cleaning from the inside is a requirement. Also available as French window combination.

### نظام فتح الفصال والقلاب :-

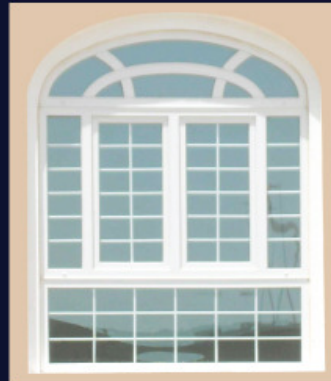
يلانم مختلف الأنواع ولها شكل جميل ومتناسق نوع معاصر من الشبابيك والأبواب بحيث تسمح بالفتح البسيط أو الكامل للداخل هذا النوع من الشبابيك يمكن تنظيفه من الداخل بسهولة ومتوفر أيضاً كنظام فرنسي

### FRENCH WINDOWS :

Offer new alternatives to users who prefer economical, reliable and practical solution to their needs. An internally beaded, double sash window with tilt and turn functions. Ideal for any application.

### الشبابيك الفرنسية :-

مزايا جديدة وحلول عملية للفتح بدرفتين للخارج أو الداخل  
امكانية الفتح بنظام الفصال والقلاب

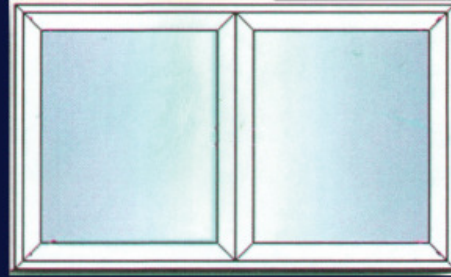




### CASEMENT WINDOW (OPEN OUT) :

For those seeking for superior quality, aesthetical appearance but cheaper alternatives, this type is the perfect solution. An internally beaded outward opening casement window with an aesthetically enhanced design which incorporates the latest in PVC - U technology.

**النافذة البايبة (فتح للخارج) :-**  
للذين يبحثون عن النوعية الممتازة وسعر أقل



### TILT AND SLIDE SYSTEM :

A system which has specially been designed to gain a new appearance to construction by enriching living places. Excellent design coupled with functionality in areas of usage brings about a new choice. It can tilt inwards and conventionally slide open, making it an outstanding choice for builders.

**نظام القلاب والسحب :**  
يعطي مظهراً جديداً للشبابيك

### RESIDENTIAL DOORS :

This offer outstanding alternatives suitable for any choice and budget. The perfect profile design and aesthetical contours renders flexibility in auxiliary materials. The profiles offer an inward opening operation and also available as French doors.

**الأبواب الداخلية :**  
نظام لا يتأثر بالرطوبة أو الماء  
يشمل اليد والفصالات والحلق والدرفة ولا يحتاج إلى دهان



### ENTRANCE DOORS

Similar to the residential doors with additional characteristics. This particular type can accommodate larger openings and is best suitable for commercial applications. A combination of functionality, durability and quality, all in one system.

**أبواب المداخل الرئيسية :**  
أشرطة من المطاط عازلة للصوت والماء . ذراع الإغلاق بارتفاع الباب  
نظام ألماني متطور . قوة وأمان .





**Project Name**

Building For Saif Bin Darwish

**Contractor**

Bin Darwish Contractiong





**Project Name**

SS8Villas - Dubai Land

**Contractor**

Arabtec Construction LLC

**Consultant**

Design & Architecture Bureau (DAR)

**Client**

Dubai Properties







**Project Name**  
G+10 Floors BL D6, AL Danu - Dubai

**Contractor**  
Team Engineering

**Consultant**  
Mazaya Consulting Enginere

**Client**  
Tameer





**Project Name**

**Mangrove Place**

**Contractor**

**Gulf Technical Construction**

**Consultant**

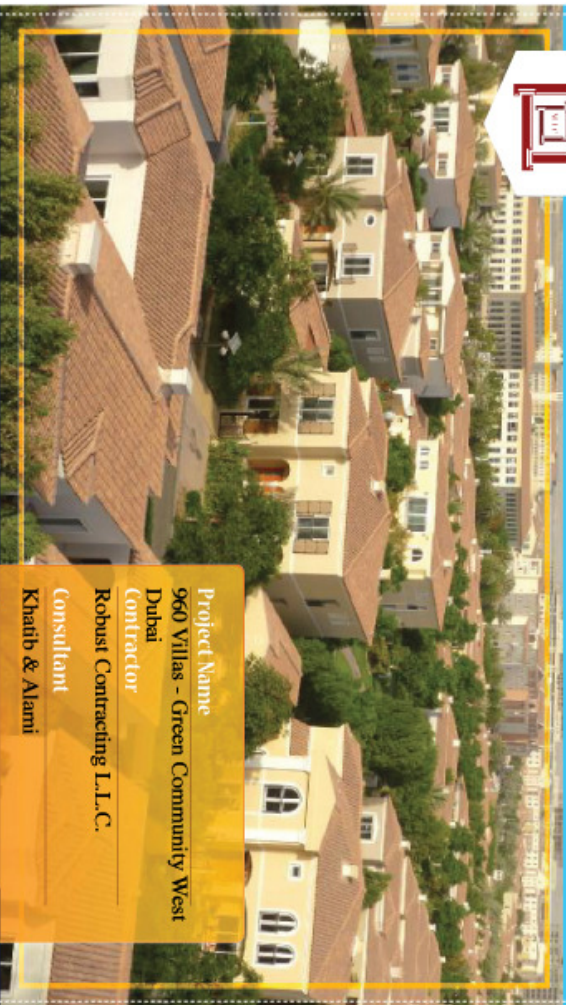
**UPA-Urbanism Planning Architecture**

**Client**

**Luxury Real Estate**





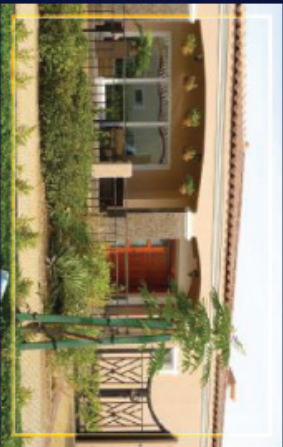


**Project Name**  
960 Villas - Green Community West  
Dubai

**Contractor**  
Robust Contracting L.L.C.

**Consultant**  
Khatib & Alami

**Client**  
Properties Investment





**Project Name**  
254 Key Villas for Dubai Properties

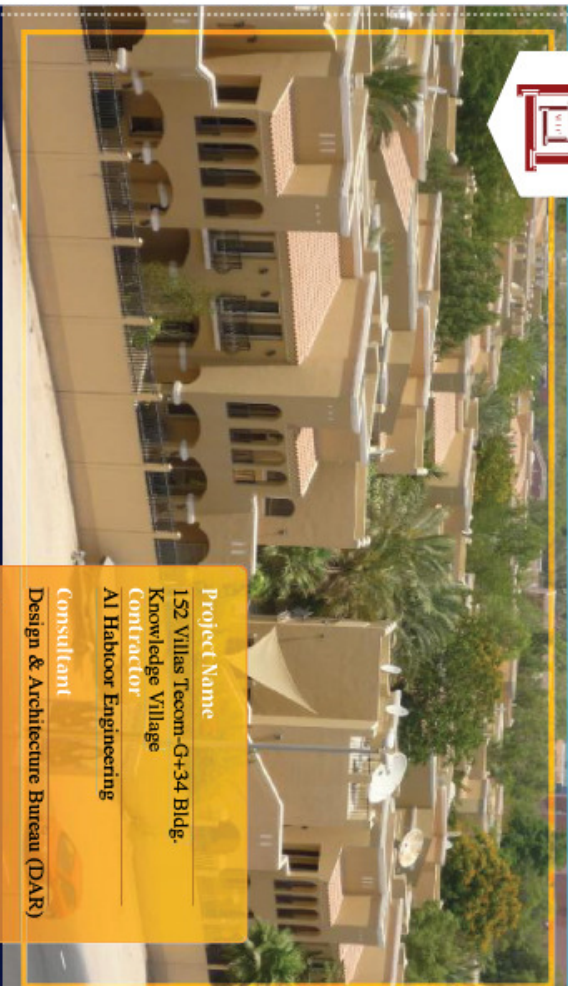
**Contractor**  
Al Habtoor Engineering

**Consultant**  
Design & Architecture Bureau (DAB)

**Client**  
Dubai Properties







**Project Name**

152 Villas Tecom-G+34 Bldg.  
Knowledge Village  
Contractor

AI Habtoor Engineering

**Consultant**

Design & Architecture Bureau (DAR)

**Client**

Tecom





**Project Name**

3 Buildings at Emirates Garden 1

**Contractor**

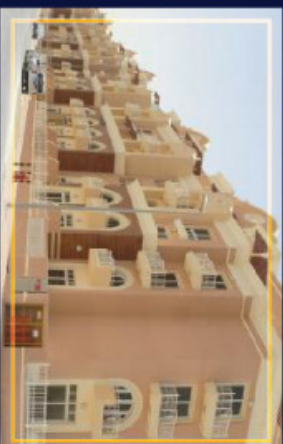
Intermass Engg. & Cont. Co.

**Consultant**

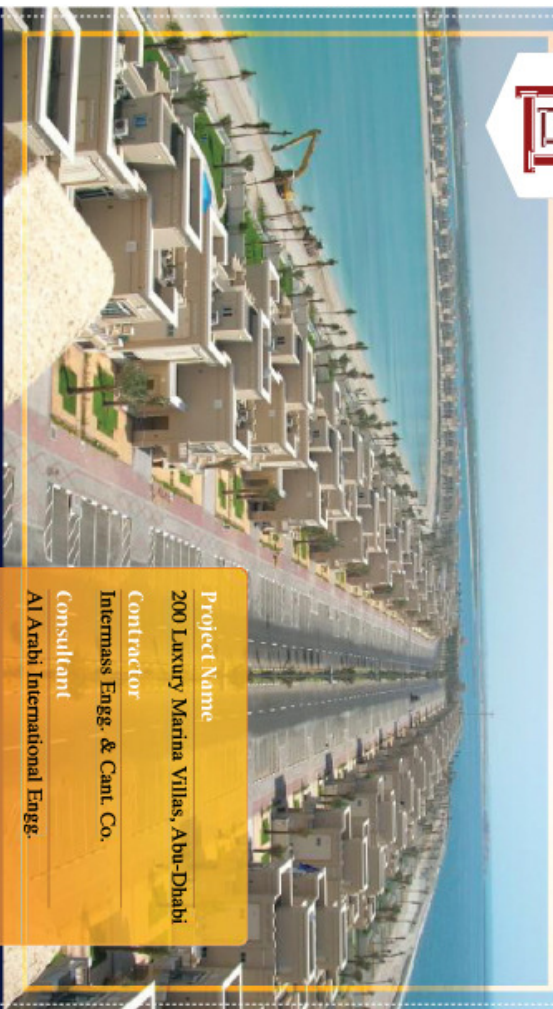
Incorporated Consultants (CONIN)

**Client**

Damac Properties







**Project Name**

200 Luxury Marina Villas, Abu-Dhabi

**Contractor**

Intermass Engg. & Cant. Co.

**Consultant**

Al Arabi International Engg.

**Client**

National Investment Corporation

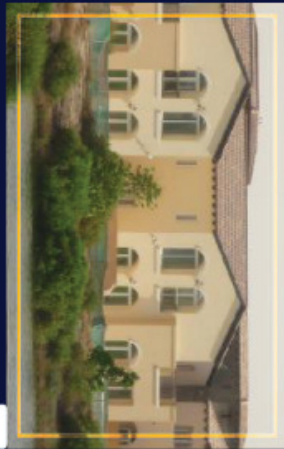
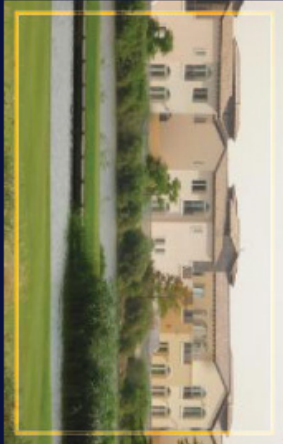
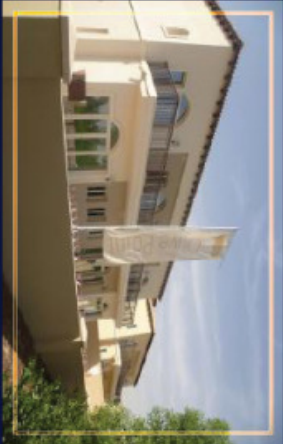




**Project Name**  
113 Villas - Sienna Lake Villas - Olive  
Point Villas  
**Contractor**  
AI Naboodah Cont,

**Consultant**  
John R. Harris & Partners (JRHP)

**Client**  
Tulip Developers



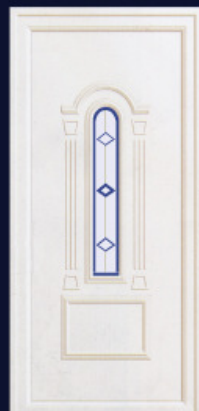




**PVC 9404**



**PVC 9300**



**PVC 9302**



**PVC 9320**



**PVC 9400**



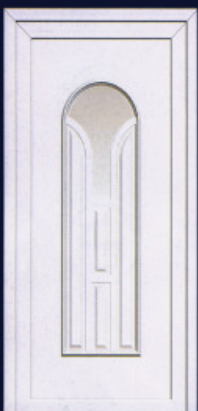
**PVC 9460**



**PVC 9474**



**PVC 9480**



**PVC 9491**



**PVC 9604**



**PVC 9621**



**PVC 9721**



**SQUIRE 2-BLUE  
DIAMONDS**



**SENATOR 2-OBSCURE  
GLASS**



**PVC 9007**



**JESTER 2-TITAN  
BEVELS**



**MONAARCH  
1-HYPERION**





**MIC 01**



**MIC 02**



**MIC03**



**MIC 07**



**MIC 08**



**MIC 11**



**MIC 12**



**MIC 13**



**MIC 04**



**MIC 05**



**MIC 06**



**MIC 09**



**MIC 10**



**MIC 14**



**MIC 15**



**MIC 16**





## BRANCHES

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