



UPVC WINDOW &
DOOR PROFILE



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**Calmness is secured
in our windows**

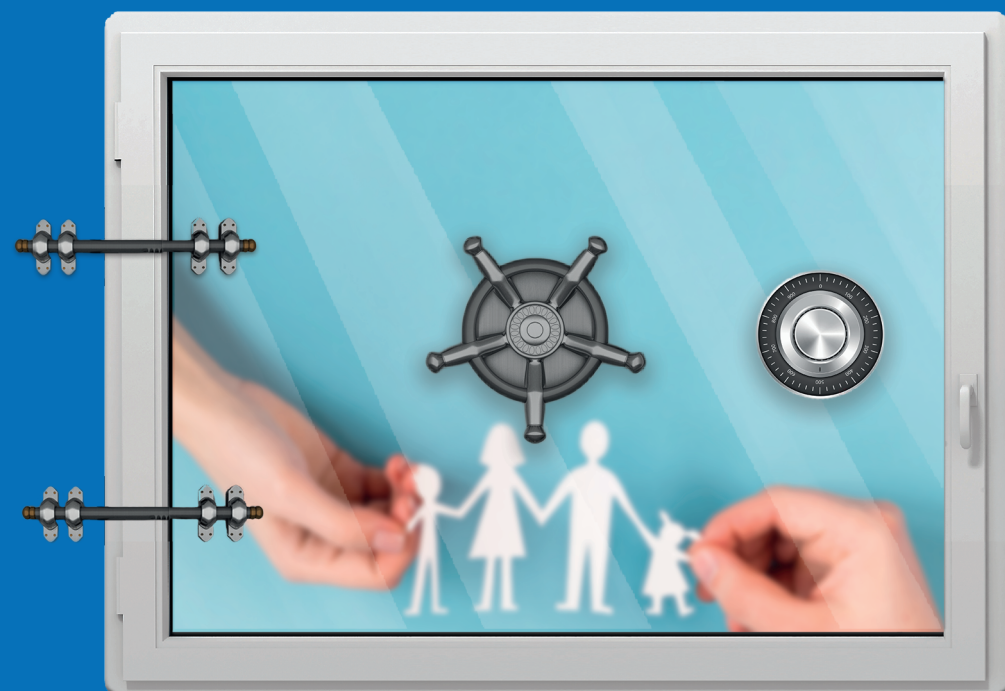


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Foreword

History . Introduction . Used items

According to research by the Fuel Consumption Optimization Organization in Iran, about 45% of energy loss occurs through doors and windows. If you touch the window frame and glass in winter, you will notice that it is cold, and this is due to the heat exchange between the window frame and the glass with the outside space. The construction sector, with a share of at least 35% in energy consumption, is one of the industries that have high consumption. Increasing prices for energy carriers, on the one hand, and the limited resources of some energy sources, on the other, have made the issue of preventing energy waste one of the most important concerns of the government and the people today.

With this in mind, manufacturers have introduced new energy-saving products to the public. Given that most of the energy is consumed inside buildings, whether residential or other uses, one effective method in preventing energy waste and its optimal consumption is the use of UPVC doors and windows and standard double glazing. Due to their properties, in addition to being insulated against cold and heat and

minimizing heat exchange, these products are also good at minimizing noise and environmental pollution. The construction of UPVC doors and windows dates back to the 1960's in European countries. In the past, wooden doors and windows were often used and then different types of metal doors and windows. Now, in recent years, doors and windows expanded into using UPVC doors and windows. UPVC doors and windows have become very popular in the market due to the economic production and ease of use compared to wooden and metal windows and have become the dominant material in the construction industry. It has been less than 15 years that this type of door and windows are used in Iran, especially in apartments. The new generation of UPVC doors and windows not only saves energy but also enhances the visual aesthetics of the building exterior and solves many of the problems that people face in hot and cold seasons.



Abayan Profile Production Group

ABAYAN
P R O F I L E

Abayan Profile Production Group began in the UPVC door and window industry in 2010 with the goal of reducing energy consumption and meeting the needs of construction industry activists. Then, with a brilliant record in this industry, built a factory producing UPVC profiles under the Abayan brand. The factory has a capacity of 4,000 tons per year and 7 main molds in Dezful industrial zone number two. After phase two, which will increase the number of production lines and add 8 additional molds, the production capacity will reach 10,000 tons per year.

The main mission of APG has always been based on of Abayan Profile Group is always based on quality, production standards and recognition of consumer rights. For this purpose, by using modern and advanced machines with specialized and experienced personnel, we have produced and marketed quality products. We hope that with the help of God Almighty, we will be able to take an effective step towards advancing the country's industry and domestic production and continue to be a leader in this field.

Abayan is the name of a mountain that is said to be forty miles high.



Abayan UPVC Doors



Abayan UPVC Windows

Abayan Profile UP.V.C



WINDOWS



DOORS



PIPE

UPVC

Unplasticised Poly Vinyl Chloride

About Profile

The most important ingredient in UPVC profiles, which makes up about 80 to 85% of the profile materials, is PVC powder. This is produced from black oil derivatives and chlorine gas during the polymerization process. In addition to PVC powder, there are other materials in UPVC profile compositions. Their type, quality, and formulation are very important and greatly impact the quality of the profile.

It is obvious that maintaining the quality of UPVC profiles is directly related to the quality of raw materials and their proper combination, so this company has achieved a durable and exclusive combination in the production of UPVC profiles by great care in preparing high-quality raw materials and employing experienced European experts. It has adapted to different climatic conditions and its quality has lasted over time. In order to achieve this, the PVC powder used in Abayan Profiles, which is a modern thermoplastic with technical characteristics (k values 6558), was prepared by Bandar Imam Petrochemical. Also, the profile additives are provided by reputable and top European brands.

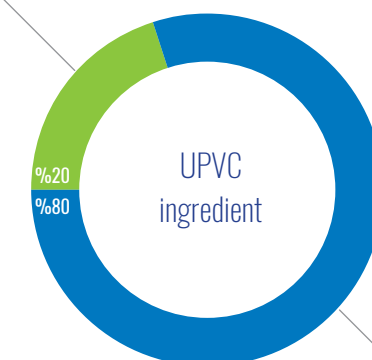
Impact Modifier
Improves impact resistance.

Stabilizer
Thermal stabilizer that makes it resistant to heat.

Filler
Profile filler and hardener.

Lubricant
Provides lubrication as well as creating a smoother product surface.

Titan
Color stabilizer that makes the product white and transparent.



PVC

About 80 to 85% of the profile materials, is PVC powder.

Abayan Profile

UPVC



Production Process

At the Abayan Profile production group

At the Abayan Profile production group, after quality control of raw materials by the quality control unit, raw materials are weighed accurately based on the special formulation by special measuring equipment, and using the most advanced fully automatic machines, the mixing operation is performed and ready for production. After storing and resting the mixed materials in special silos for a certain period of time, the materials are transferred to the production lines and there they enter the extrusion stage by advanced extrusion machines. During this process, the material is shaped into the desired profile and its shape is stabilized during the calibration stage.



- Special Formulation
- Advanced Fully Automatic Machines

Abayan Profile Specifications

The Abayan profile is of high quality, durable, strong and compatible with different and harsh weather conditions. The molds are made exclusively by German design. Profiles have 4 channels with standard thicknesses with a cross-section of 60 mm. The gaskets used in Abayan profiles are TPE type which has high weldability and has a great effect on the insulation of windows. The thickness of the glass used in Abayan is 20 mm and the beads produced are decorative and very elegant. Also, the bead is designed in such a way that it has high flexibility and makes the installation conditions very easy for the installation technicians. Also, bead's gasket with coextrude technology and at the same time with the process of profile production is injected into it, which is a very good insulation for windows, and the long life of these gaskets is another advantage of this technology.




The Abayan profile is of high quality,
durable, strong

Features of UPVC doors and windows made with Abayan Profiles

- Strength
- Energy savings of up to 40%
- Reduce noise pollution up to 40 decibels
- Resistant to the sun's ultraviolet (UV) rays and their destructive effects
- Resistant to rust, dust, and air humidity
- Prevents the entry of dust, smoke, and air pollution from the outside to the inside
- No need to spend money on painting
- Resistant to destructive agents such as acids, alkalis and chemicals
- Resistant to various harsh weather conditions
- Non-flammable and produces no toxic gases
- Reduction of unique heat exchange coefficient due to the 4-cavity profile
- Convenient and easy to clean due to the antibacterial profile
- Colorfastness in the sun
- Ability to use color methods and color variation
- Fantastic beauty
- Affordable
- No need for frequent services
- Protect the environment through recyclability
- Easy to install
- Double reinforcement using galvanized profiles

Energy savings of up to **40%**
Reduction of unique heat exchange coefficient due to the 4-cavity profile.



Quality control of Abayan profile RAL GZ 1/716

Comply with international rules and regulations & the Iranian standard

One of the general goals of the Abayan Profile Production Group is product quality and maintaining its quality. For this purpose, the laboratory of this group is equipped with advanced specialized equipment and by employing specialized and experienced personnel, all raw materials and production stages have been carefully controlled with regular planning and comply with international rules and regulations, the Iranian standard, as well as the European Standard RAL GZ 1.716.

Some of the tests performed on Abayan profiles are:

- Test the formulation and composition of raw materials
- Test the moisture content of raw materials
- Test the profile behavior after heating and cooling
- Bending test (deviation from a straight line)
- Unit length mass test
- Impact resistance test
- Weld resistance test
- Test the dimensions and thicknesses of the profiles
- Acid and alkali resistance test
- Color control test and resistance to UV rays



Quality control of Abayan profile

Abayan Colored laminate profiles

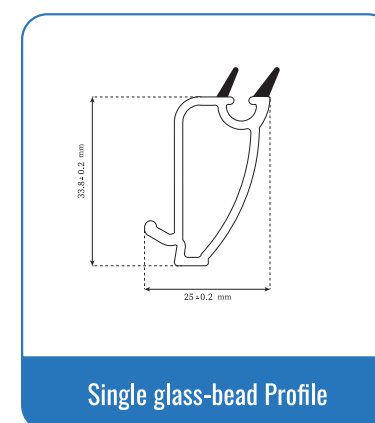
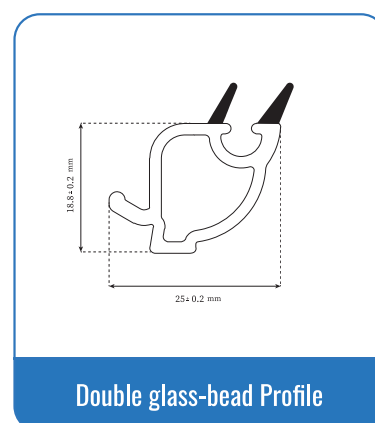
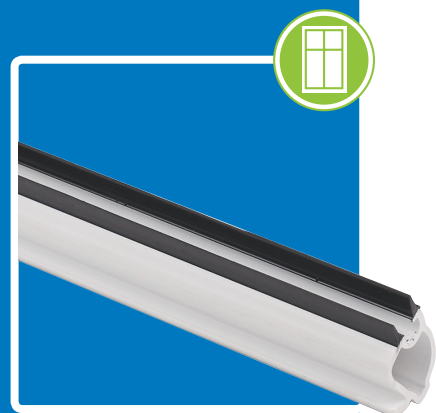
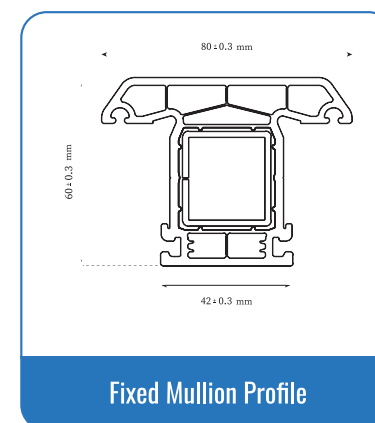
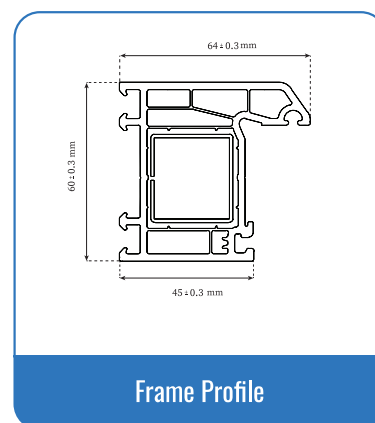
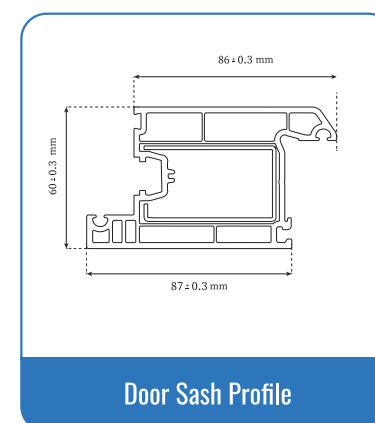
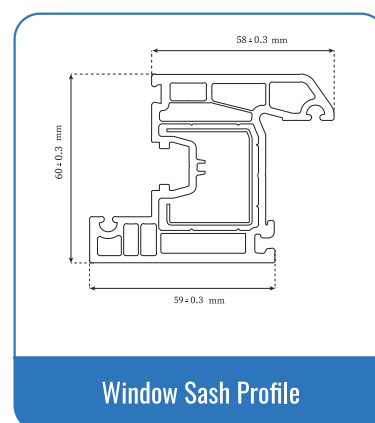
The harmony among the colors of UPVC doors and windows and the building facade has long been considered by all architects and contractors. In this regard, in most building designs, white doors and windows are used, and in some cases, colored doors and windows are used to coordinate with the building's exterior or interior.

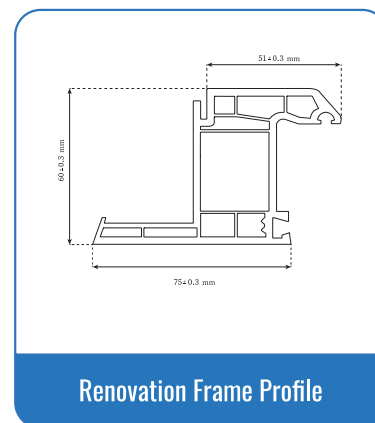
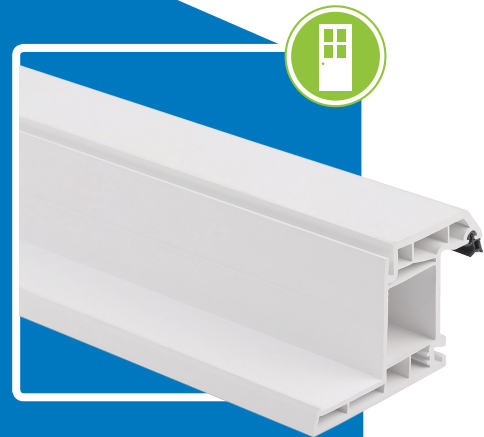
Therefore, in order to respond to their customers' requests, Abayan Profile Production Group produced colored laminated profiles and marketed them to meet the needs of customers.

Abayan colored laminate profiles, while maintaining its quality and material standard, give a special beauty and charm to UPVC doors and windows and also create harmony between doors and windows with the building's design.

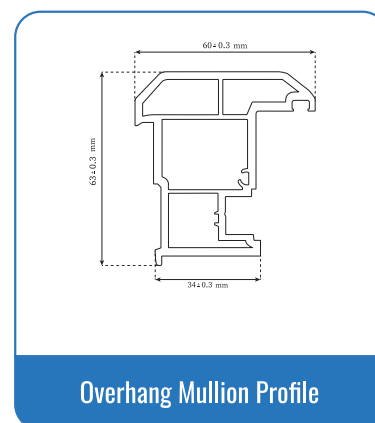


Types of Abayan profile sections

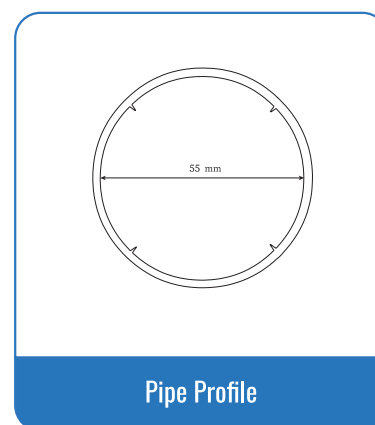
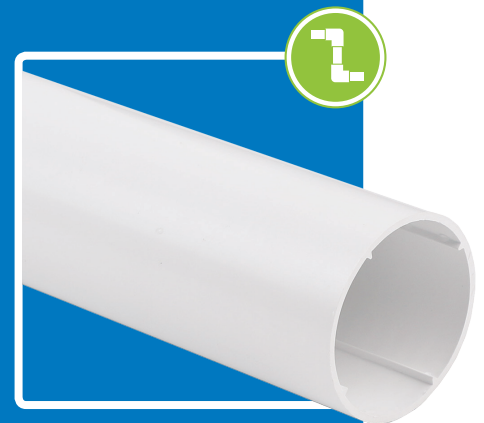




Renovation Frame Profile

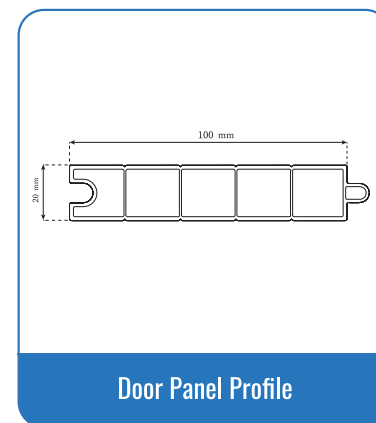


Overhang Mullion Profile

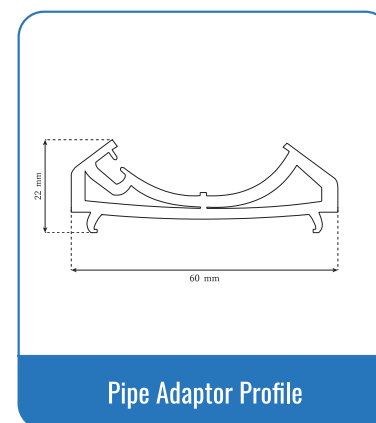


Pipe Profile

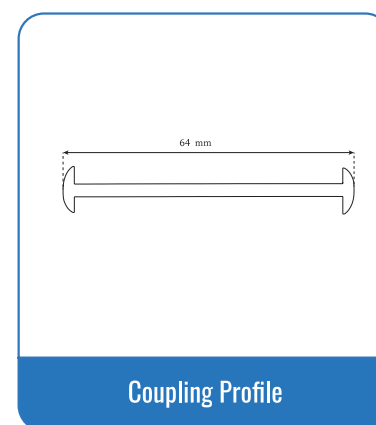
Profile Sections



Door Panel Profile



Pipe Adaptor Profile



Coupling Profile

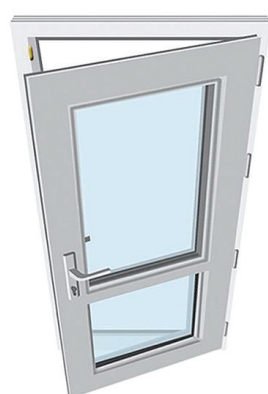


Doors & Windows made with Abayan

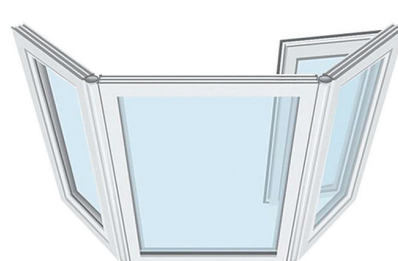
Create harmony between doors and windows



French door



Patio doors



Bay window



Casement window



French window



Arch Head window



Sliding folding window



Tilt window



Tilt and Turn Windows



Turn window



Tilt Sliding window



Sliding window

Easy to install

Abayan Economic Profile



Due to economic conditions and reduced purchasing power of some sections of society, in order to support manufacturers and consumers of UPVC doors and windows, Abayan decided to market its economic product under the name of Green. In this market category, economic profiles can meet the needs of producers and consumers in the market. It should be noted that although Green is offered as an economic profile of Abayan, due to the use of the same raw materials as the main profile, it has a higher quality than profiles of the same category.



Hight quality in category of
economic profiles



national & international standards and regulations

Certificates and honors

Abayan Profile Production Group has always tried to improve and maintain the quality of its products, in accordance with national and international standards and regulations, and to obtain the satisfaction of its customers by producing quality products. In this regard, it has obtained certificates and honors and continues to strive to achieve other certifications, honors and achievements.



Warranty and insurance policy

For the convenience and satisfaction of our esteemed buyers, Abayan Production Group guarantees all sections of UPVC profiles with the Abayan brand in construction projects against damage caused by out-of-standard color change due to UV rays and deformation against cold and natural heat and by "MA" insurance company. The projects are covered by the liability insurance of the producers of the product towards the consumers.



BE KIND TO BLUE PLANET!

