



THE GREAT BREAKTHROUGH Vestal Profiles

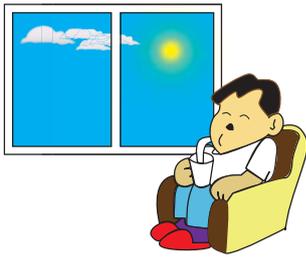


ANTI UV ALL WEATHER UPVC PROFILES

Vestal Profiles

Product Features

Excellent thermal preservation performance



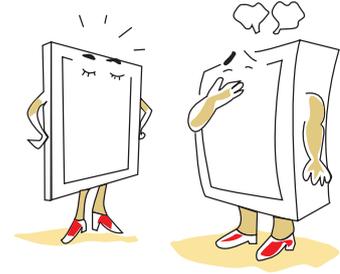
Plastic has heat conductivity factor, and has a heat insulation effect 1250 times better than aluminum material. Besides plastic has good air tightness, therefore, in cold or hot areas, your house is another world though the outdoor temperature is several decades degree below zero or of very high temperature.

Good sound insulation performance



Its structure is designed very well, with tight joints. The test result indicates that its sound insulation is <20db and complies with DIDN4109.

Anti-aging



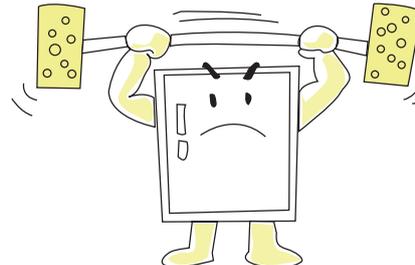
Imported denaturalizing agent is applied, and the agent for preventing UV rays absorption is added in the raw materials. The product does not discolor, and become aging or brittle even when it is exposed to direct sunlight, rainstorm, drying or humidity between -30°C and 70°C.

Good combustion-retarding performance



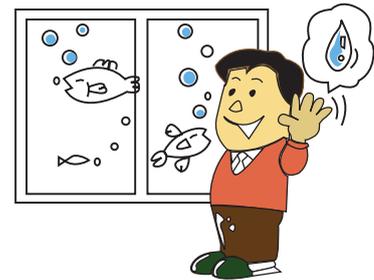
Plastic window is made of quality combustion-retarding material, and does not ignite itself or support combustion and can extinguish the fire by itself. So it is your ideal choice.

Resist Impact



Special impact-resisting design is applied, and the section material can bear cold impact test of 1kg hammer dropping freely from one meter height at -10°C.

Good waterproof performance



Its water absorption is <0.1%. The doors and windows are designed to have rainproof plates and water drain slots, and can completely isolate the rainwater outside of your room. Its waterproof performance complies with DIDN18055.

Good anti-theft



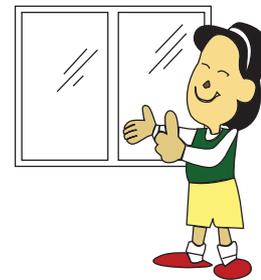
Plastic doors and windows are provided with high-quality metal articles. Inside of windows will be fitted with glass strips according to the design so that thieves have no solutions.

Easy maintenance



Plastic sections are not corroded and do not discolor or get yellow. They are not affected by ash, cement or binding agents, so they almost need no maintenance.

Good air tightness



All the joints and gaps of the plastic windows are fitted with ternary sealing strips, and unit length of gaps can vent below 4m³ mmhm. In the house equipped with cold and heating facilities, the plastic window can be fully utilized as air-conditioners, and can save energy.

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The Great Breakthrough

Aiming at the special weather of India, Vestal Group seriously developed Vestal anti-UV co-extrusion profile in its profile factory. It completely solves the aging and fading problem of white profile under high intensity UV light and fills the blank of the industry in India.

Special Techniques Formula

Modifying the common-used CPE and ACR systems in profile formula, we use special technique to solve more efficiently the aging and fading problems of white profile in the area of high UV intensity, meanwhile overcoming the default of low-temperature impact performance of co-extrusion profile.



Theory of Good Anti-UV Performance

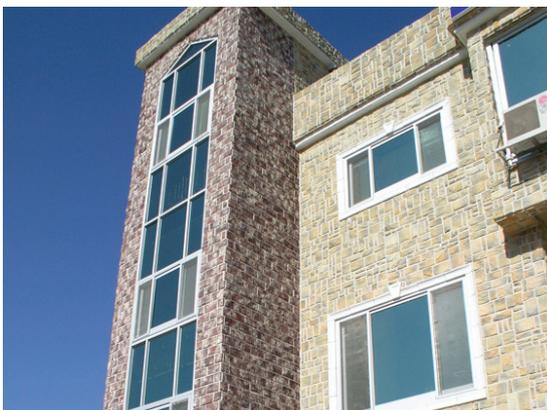
Weather Resistance Performance Difference of CPE and ACR System

1. Weather Resistance Default of CPE

Because the reacting HDPE presents as particle, the reaction starts from the surface of the particle to the interior, thus there exits non-release HCL inside, resulted in the product degradation to fade.

2. Structure Advantage of ACR

ACR is the core-shell structure copolymer of methyl methacrylate and butyl acrylate monomers, unable to degrade PVC, thus highly enhancing the weather resistance performance of PVC profile.



Principle of High Density TiO₂

1. Because of high density TiO₂ of co-extrusion layer and Vestal specific disperse technique, it produces a high unit density of TiO₂ in the co-extrusion layer of the profile, which is 2.5 times higher than the normal profile, thus resulted in apparently better absorbability of UV light by the surface than other similar products.

2. The high density of TiO₂ in the co-extrusion layer greatly enhances refraction and dispersion rate, more efficiently resists UV light, and prevents the possibility of photochemical reaction with copolymer or other additives by absorbing UV energy.

Principle of UV Absorbent

UV absorbent can efficiently absorb and transfer UV energy, lower the damage of UV light to the profile.

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Articulate Production Technique

After a lot of experiments and strict examination, we are able to develop a set of production formula and technique suitable for co-extrusion white profile by using co-extrusion technique of color profile. The designed “double layer” window frame reinforces the anti-aging property of profile, solves the problem of windows fading, and achieves the great breakthrough in the super weather resistance property of profile.

Good Physical Mechanics

Test Item	National Standard	Test Result
Thermal Deformation	$R \leq 2\% \Delta t \leq R 0.4\%$	R: 1.5% Δt R: 0.1%
Low-temp Impact	1/10 breakage	0/10 breakage
Welding Residual Stress	Average ≥ 35 MPa	Average 50 MPa
	Minimum ≥ 30 MPa	Minimum 47 MPa
Tensile-Impact	≥ 600 KJ/M ²	730 KJ/M ²
Major Brands	$\geq 75^\circ$ C	82 $^\circ$ C
Flexiral Module	≥ 2200 MPa	2680 MPa

Theory of Good Anti-UV Performance

Scientific Cavity Design

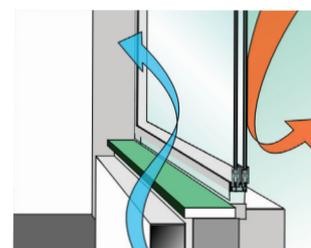
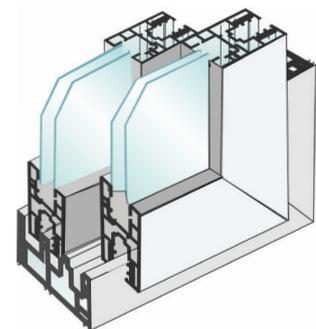
Vestal anti-UV profile comes with multi-cavity structure, good temperature insulation; tiny heat transfer coefficient which is only 1/1250 of aluminum profile; better air proof property than aluminum window by installing rubber sealing; good water proof property by independent drainage cavity in frames and sashes.

Systematic Optimized Design

Plentiful varieties including hundreds of profiles are able to meet requirement of making different complicated windows. The systematic optimized design of anti-UV profile ensures the increase of wall thickness without adding weights to the profile. The window rate is from 96 to 160.43 m²/T, a good performance-price rate.

Solid Anti-blast Pressure Property

It is possible to insert 2-3mm reinforcement steel into cavity of profile. According to local blast-pressure, heights of building and hole size, reasonable window design and usage of reinforcement steel and profile can ensure the intensity requirement of windows and doors in construction.

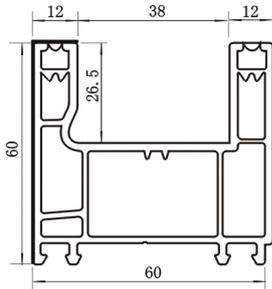


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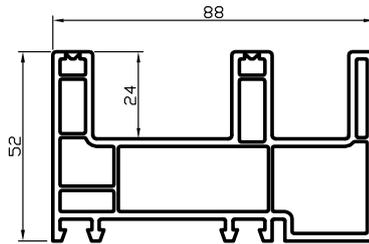
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The section of 80 sliding series

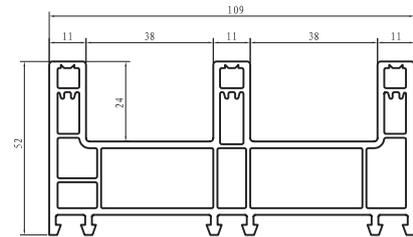
The section of 60-88-95 sliding series



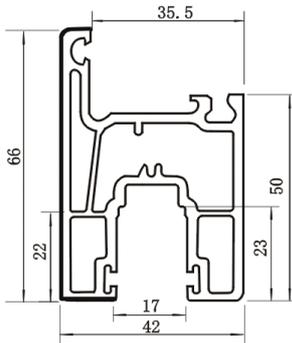
VT60-K
Frame
unit weight 1.050kg/m



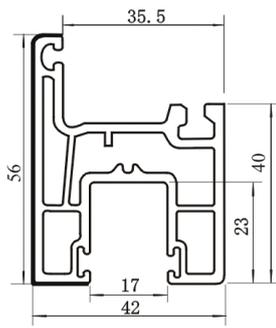
VT88-PK(J)
Frame
Unit weight/meter: 1.33Kg/m



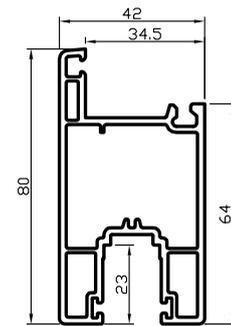
VT246-H
Frame Three track
Unit weight/meter: 1.70Kg/m



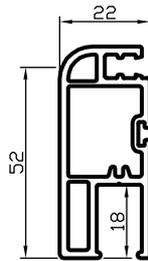
VT95-S
Sash
Unit Weight 0.910 kg/m



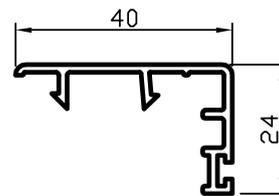
VT88-S
Sash
unit weight 0.79kg/m



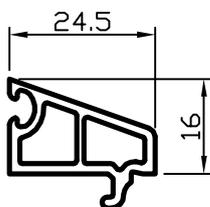
VT-034
Sash
Unit weight/meter: 1.01Kg/m



VT-80-88DSS
Sliding screen sash
Unit weight/meter: 0.55Kg/m



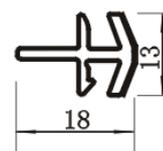
VT-016
End cap / Interlock
Unit weight/meter: 0.22Kg/m



VT88-DY
25mm glazing bead
Unit weight/meter: 0.21Kg/m



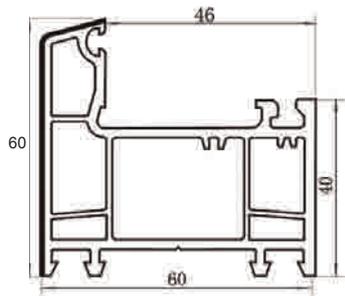
VT88-SY
Double glazing bead
Unit Weight 0.145 kg/m



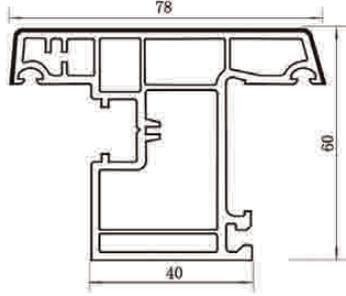
VF-GMT
Frame connector
unit weight 0.110kg/m

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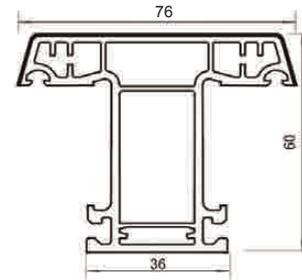
Vestal Profiles The section of 60 casement series



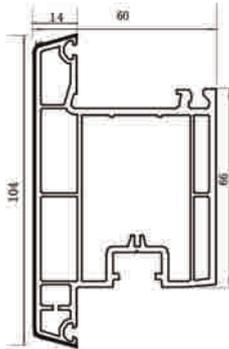
VP60-K
Frame
Unit Weight 1.00 kg/m



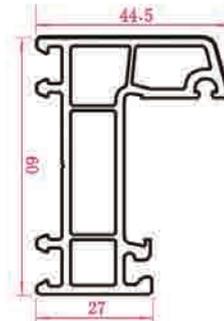
VP60-WKS
Out-swing sash
unit weight 1.15 kg/m



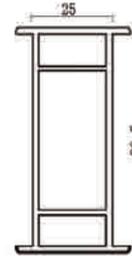
VP60-ST
Mullion
unit weight 1.02 kg/m



VP60-MS
Door sash
unit weight 1.50kg/m



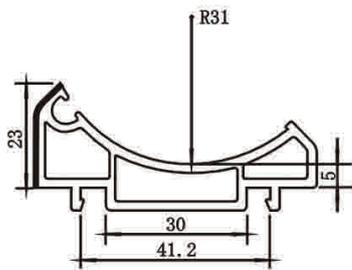
VP60-GNK
Narrow frame
unit weight 0.730kg/m



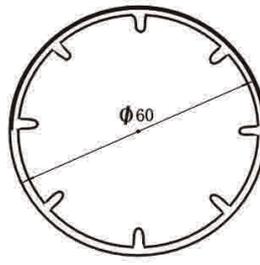
VF60-PG
60 Frame connector
unit weight 0.665kg/m



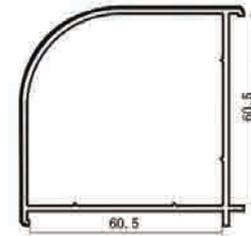
VF60-PB
60 Frame connector
unit weight 0.245kg/m



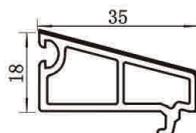
VF-WXZJ
Bay post adapter
unit weight 0.500kg/m



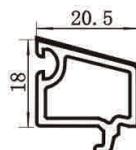
VF-YG
Bay post
unit weight 0.550kg/m



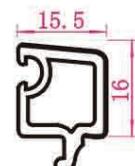
VF60-ZJ
60 Curved corner
unit weight 0.770kg/m



VP60-DY
Single glazing bead
unit weight 0.27 kg/m



VP60-SY
Double glazing bead
unit weight 0.195 kg/m



VMB-YT
Door bead
unit weight 0.185 kg/m



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