

The Great Breakthrough

Vestal Profiles –





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≤2% ≤R0.4%	R: 1.5% 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	≥ 75° C	82 ° 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.









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

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 TiO_2 of co-extrusion layer and Vestal specific disperse technique, it produces a high unit density of TiO_2 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.

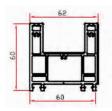
Principle of UV Absorbent

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

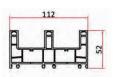




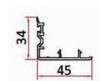
The Section of 60-88-110 Sliding Series



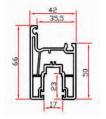
VT60-K Frame Unit weight 1.2 kg/m



VT246H Frame Unit weight 1.68 kg/m



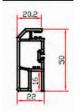
VT95FB Cover Unit weight 0.235 kg/m



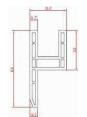
VT95-S Sash Unit weight 1 kg/m



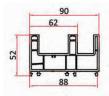
VT88-DY Single Gazing Bead Unit weight 0.214 kg/m



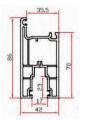
VT-80-88DSS Screen sash Unit weight 0.47 kg/m



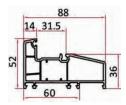
VTIF30 Screen Frame Unit weight 0.76 kg/m



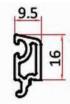
VT88-PK Frame Unit weight 1.39 kg/m



VT-034 Sash Unit weight 1.28 kg/m



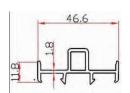
VST88-07 Fixed Frame Unit weight 1.11 kg/m



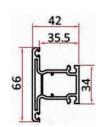
VT88-SY Double glazing bead Unit weight 0.145 kg/m



VT016 Interlock Unit weight 0.27 kg/m



VT80SSL-T Cover Unit weight 0.284 kg/m



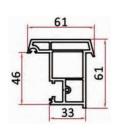
VT60ST Mullion Unit weight 0.8 kg/m







The Section of 60 Casement Series



VP60FZT Door Mullion Unit weight 1.08 kg/m

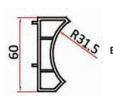


VP60-DY Single Gazing Bead Unit weight 0.275 kg/m



VP60LB Lover bead Unit weight 0.33 kg/m

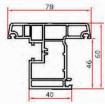




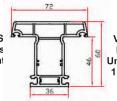
VF-WXZJ Bay post adapter Unit weight 0.52 kg/m



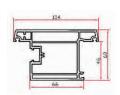
VP60-SY Double glazing bead Unit weight 0.195 kg/m



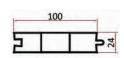
VP60-WKS Outward sas Unit weight 1.3 kg/m



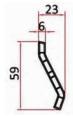
VP60-ST Mullion Unit weight 1.05 kg/m



VP60-MS Outward sash Unit weight 1.57 kg/m

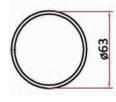


VP60DP Door panel Unit weight 0.58 kg/m

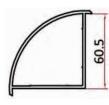


VP60LS Lover sash Unit weight 0.235 kg/m

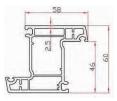
Accessories



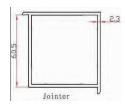
VF-YG Bay post Unit weight 0.74 kg/m



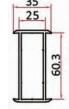
VF60-ZJ 61 curved corner Unit weight 0.78 kg/m



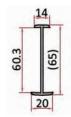
VSP60-42 Z Mullion Unit weight 1.18 kg/m



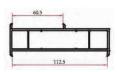
VSP60-14 Square corner Unit weight 0.86 kg/m



VF60-PG 60 frame contector Unit weight 0.66 kg/m



VF60-PB 61 frame contector Unit weight 0.3 kg/m



VST112-02 Jointer Unit weight 0.99 kg/m



VMB-YT Double glazing bead Unit weight 0.174 kg/m



VST77-14 Grid gasket Unit weight 0.09 kg/m





Product Features

Excellent thermal preservation performance



Plastic has heat conductivity factor, and has a heat insulation effect 1250 times better than aluminum material

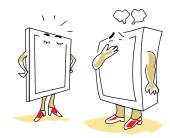
Besides plastic has good air tightness, therefore, in cold or hot areas, your house is another world though the outdoor temperature is several decades degree below zero or of very high temperature.

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 combustionretarding 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 highquality 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 $4m^3$ mmhm. In the house equipped with cold and heating facilities, the plastic window can be fully utilized as air-conditioners, and can save energy.











Since 2008

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Produced according to the national of GB/ T8814-2004

Passed ISO90001 : 2000

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