



a product by
Mahavir Aluminium

Your Window
to the World



La Vitné
window systems



1. Excellent thermal insulation

La-vitré aluminium windows and doors provide excellent thermal insulation. Innovative profiles with central sealing, thermally-optimised glass spacers glazing guarantee thermal insulation

2. Elegant aluminium design

La-vitré aluminium windows consist of a sealed, insulated Glass frame with high-quality aluminium. Narrow profiles ensure maximum light incidence, while the aluminium offers numerous possibilities for colour and surface design.

3. Long-term functional reliability

The standard peripheral bonding of the sash frame with the glass pane ensures high angular stability and torsion resistance of the sash, important for its long-term functional reliability. Special technology contributes to the narrow profile appearance, high thermal insulation and protection against break-ins.

4. Large choice of product variants

Large variants are available to meet your aesthetic and structural requirements. For a particularly attractive contemporary finish, a flush interior execution is available, as well as an installation option to conceal the exterior frame.

5. Wind and weatherproof

Equipped with a centre seal, La-vitré windows and doors are designed and manufactured to meet the most demanding requirements, including extreme weather conditions. Mechanically strong corner joints and the firm fit of the seals in the frame optimises both air and water tightness.

6. Superior sound insulation

La-vitré aluminium windows and doors excel in tightness and stability. The standard execution of aluminium products offers an excellent sound insulation value upto R_w 42 dB are achieved through the use of heavy, flexible glazing and composite sashes and helps you stay calm inside.

7. State of the art security features

La-vitré window configuration already includes several elements that help ensure longevity while making windows and doors difficult to prise open, such as high-quality security fittings and all-round bolts, hinges with a load-bearing capacity of 160 kg and bonded panes. Laminated safety glass protects against break-ins and the risk of injury.

8. Efficient solar and heat protection

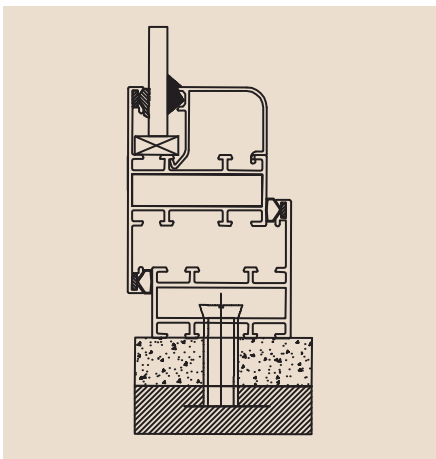
Rooms with a high proportion of glazing remain cooler for longer with special Sun-Control and Sun-Block solar protection glass. These glazing variants capture the bulk of the impacting solar energy yet at the same time provide high thermal insulation. From outside, thereby reducing the usage of air-conditioning.

9. Personalised Solution

Combines multiple features to create windows that much your desired specification.

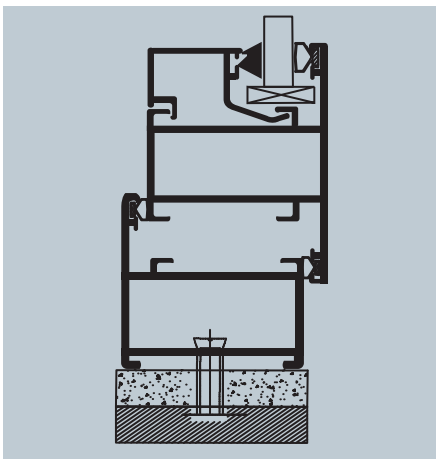
La Vitre'
windows systems

LV 4500 CC



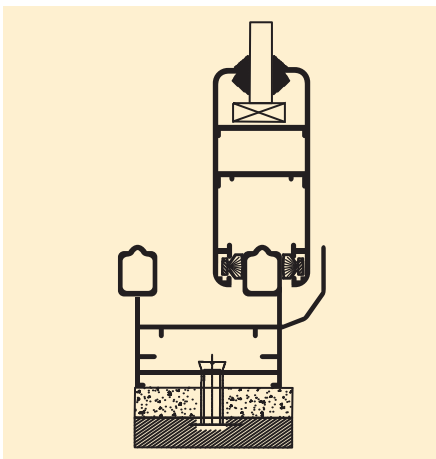
- Available in variety of color in powder coating, color anodizing, PVDF coating and wood finish.
- Range of glass /panel thickness 4 mm to 24 mm.
- External & Internal opening, top hung with fixed glass frame option.
- Option of double-glazed / laminated glass for excellent sound & heat insulation.
- Glazing from inside for security.
- Mechanically strong corner & 'T' joint.
- Seal type(air/water) internal & external overlapping central gasket & EPDM co-extruded for weather resistance (-30° c to 50° c).
- Single to multipoint locking system.
- Insect screen option available.
- Complete joinery screw less based on punching system.
- Resistance to high wind pressure with integrated vertical sash and interlock system.

MA 4000 CC



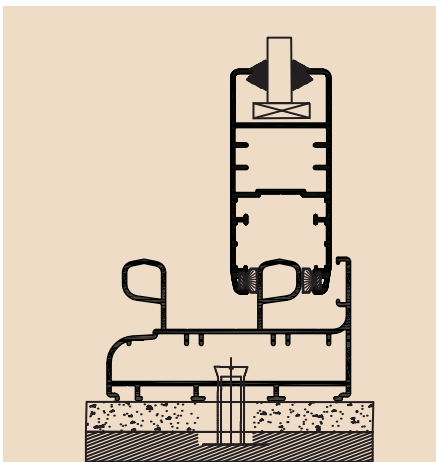
- Available in variety of colour in powder coating, and wood finish.
- External & internal opening, top hung with fixed glass frame option.
- Range of glass /panel thickness 4 mm to 20 mm.
- Option of double-glazed / laminated glass for excellent sound & heat insulation.
- Glazing from inside for security.
- Mechanically strong corner & 'T' joint.
- Seal type(air/water) internal & external overlapping central gasket & EPDM co-extruded for weather resistance (-30° c to 50° c).
- Single to multipoint locking system.
- Insect screen option available.
- Complete joinery screw less based on punching system.
- Resistance to high wind pressure with integrated vertical sash and interlock system.

MA 250 S



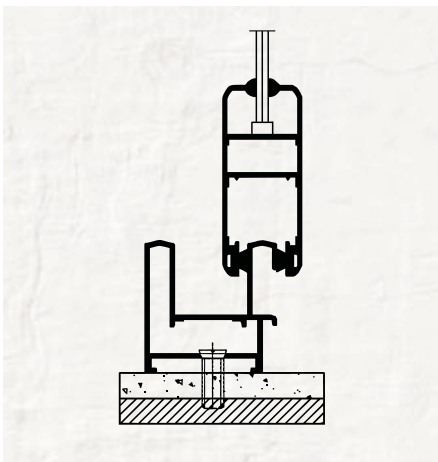
- Available in color option of powder coating, color anodizing , PVDF coating & wood finish.
- Available in 2-tracks and 3-tracks , along with fixed frame option.
- Range of glass /panel thickness 6 mm to 18 mm.
- All tracks & sash have heavy duty hollow profile cutting in 45° fitted with mechanically strong joint.
- Single roller capacity 30kg/ shutter and adjustable double roller capacity 50 kg / shutter.
- Siliconised Epdm gaskets for excellent air and water tightness.
- Provision for insect screen.
- Complete joinery screw less based on punching system.

MA 370 S



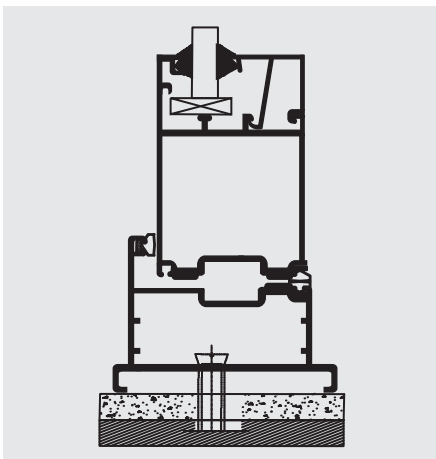
- Available in 2-track and 3track, along with fixed frame option.
- Available in variety of color in powder coating, and wood finish.
- Option of double-glazed / laminated glass for excellent sound & heat insulation.
- Range of glass / panel thickness: 6 mm to 30 mm.
- All tracks and sash have a heavy duty hollow profile cutted in 45° fitted with mechanically strong corner joints.
- Siliconised Epdm gaskets for excellent air and water tightness.
- Provision for insect screen.
- Automatic, manual and multi-point locking system.
- Complete joinery screw less based on punching system.
- Resistance to high wind pressure with integrated vertical sash and interlock system.

MA 270 S



- Available in color option of powder coating, color anodizing , PVDF coating & wood finish.
- Available in 2-tracks and 3-tracks , along with fixed frame option.
- Range of glass /panel thickness 6 mm to 20 mm.
- All tracks & sash have heavy duty hollow profile cutting in 45° fitted with mechanically strong joint.
- Option with heavy duty shutter for high-rise buildings and large dimensions.
- Single roller capacity 70kg/ shutter and adjustable double roller capacity 90 kg / shutter.
- Siliconised Epdm gaskets for excellent air and water tightness.
- Provision for insect screen.
- Complete joinery screw less based on punching system.
- Automatic, manual & multi-point locking system.

MA 5000 SF



- MA-5000 SF Available in variety of colors in Powder coating, color Anodizing, PVDF Coating, wood finish available.
- Heavy Duty hollow profile cutted in 45°, aesthetic, highly water resistant.
- Siliconised EPDM gaskets ensure air tightness, water tightness and noise insulation.
- Multi-point Locking system, dramatically increase the performance of water tightness and air tightness.
- Complete joinery screw less based on punching system.

RAILING



- A complete masked railing System.
- Innovative Aluminium Railing System, It will never split, due-to rain, ice, sun, & other Elements.
- Durable & long life Easy to install, versatile.
- Enjoy clear unobstructed views.
- 10/12 mm toughened glass.
- Available in variety of color in powder coating, and wood finish.
- Suitable for occupancy types residential & commercial.
- Available in different styles of hand rail.



ALUMINIUM vs UPVC

Feature	Aluminium	uPVC
Strength	Special Aluminium Alloy used has very high strength (minimum UTS 185 mPa) – can be designed for any sized window and is suitable for high-rise buildings.	uPVC has low strength (minimum UTS 51 mPa), low modulus and low impact resistance. MS/GI/Al reinforcements are required.
Aesthetics	Limitless colours & textures through anodising, powder coating and wood / marble finishes, etc.	Limited colour options. Susceptible to fading, discolouration and chalking on continuous exposure to UV radiations.
Temperature Stability	Stable in the range 150° C down to sub-zero. Melts at 660° C.	Stable in the range 60°C to 20°C. Melts at about 80°C. Not suitable in industrial conditions where temperatures are high.
Fire Resistance	Non-combustible	Flammable and vinyl siding can release toxic fumes when burning, particularly dioxins.
Thermal Expansion	Co-efficient of thermal expansion is 0.0000240/°C and more resistant to warping, twisting, or sticking, when subjected to the elements.	Co-efficient of thermal expansion is 0.0000600/° C. Exposure to high temperature may result in expanding and warping, while exposure to sub-zero temperatures may cause cracks.
Thermal Insulation	Window performance is mainly decided by glazing and hence, aluminium or uPVC does not matter, even more, in hot climates.	Window performance is mainly decided by glazing and hence, aluminium or uPVC does not matter, even more, in hot climates.
Sound Insulation	Outperforms in noise abatement, with damping factor of 25.9.	Damping factor is very low at 1.8.
Maintenance	Easy to maintain and at low cost.	Lower durability implies higher maintenance cost.
Resale Value	100% recyclable and hence high resale value.	Negligible resale value.
Environment Friendliness	Endlessly recyclable	Purity of material degrades. Additives cause disposal problems.

MAHAVIR ALUMINIUM

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