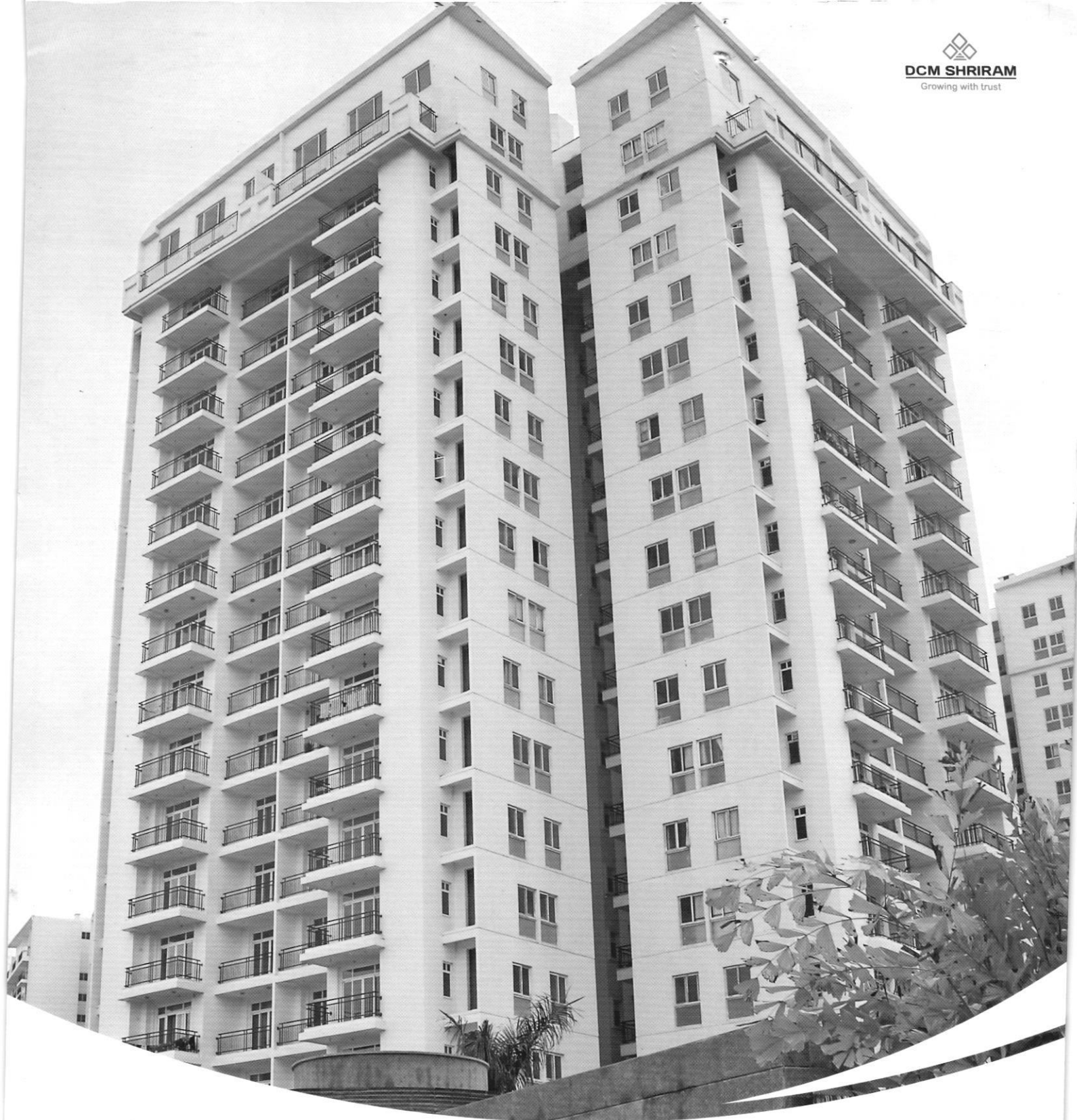




1,50,000 Homes with 2,000,000 Windows
The unmatched experience of Fenesta Windows

Fenesta 
Better by Design



The Science of Window Making

Well-made, well-specified and carefully designed to enhance the value of your home, Fenesta windows and doors improve the facade and indoor aesthetics, add elements of architectural style and alter the character of bedrooms, the living room, the dining room, the study and even the kitchen and bathrooms. They are stylish, elegant looking, smooth to touch and effortless to operate.

With these wide-ranging skills, India's leading Window brand, Fenesta produces The World's Finest Windows for The World's Finest Homes.

Window Innovations

The brand Fenesta is built around you. Built on a heritage of quality and innovation, we are continuously leading the industry with product design and function. Each product is made to order, one at a time to meet your exact specifications. With our customisation capabilities, exclusive innovations, high performance and energy efficient options and our unmatched personal service at every point in the process, you will be able to find beautiful windows and doors for your dream project.

Some of our major innovations are as:

Innovation # 1

The Rain Track – Barrier against Extreme Monsoon

Conventional 'face drainage' mechanism

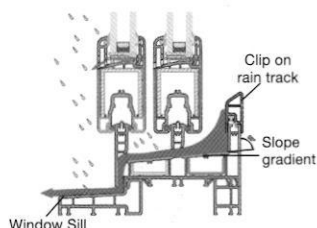
In coastal areas, 'monsoon precipitation rates' are extremely high. Worse, the monsoon storms arrive on the back of high velocity winds. The combined force of the wind and the rain annihilates conventional windows. The force is magnified in high-rise buildings, where rain spears in at a sharp 45° angle, accompanied by a gale storm.

Conventional solutions don't work

The 'face drainage' mechanism in conventional uPVC windows is inadequate for heavy monsoon areas as the force of the wind pushes the rainwater indoors (See figure 1 & 2).

Fenesta has engineered three innovations to keep the rain out

- **Rain track:** An elevated section clipped on the inside track of the window functions like a dam. It captures rainwater and drains it out
- **Sill arrangement:** This special system prevents air pressure from pushing the rainwater indoors. Instead, the rainwater flows down vertically, at some distance from the outer wall
- **Gradient slope:** A track at a downward slope of 5 degrees ensures accumulated rainwater flows out.



Slider system with Rain track and Sill-Bottom drainage (S-3000) Figure - 1



Casement system with Sill-Bottom drainage (S-3000) Figure - 2

Innovation # 2

The Hurricane Bar - Barrier against Strong Winds

Wind speeds in India are much higher than those of other parts of the world (see map). Along the coast, in the east and the west, wind speeds touch 200 kmph, the equivalent of 2000 Pascal wind loads.

In these conditions, conventional windows rattle and whistle.

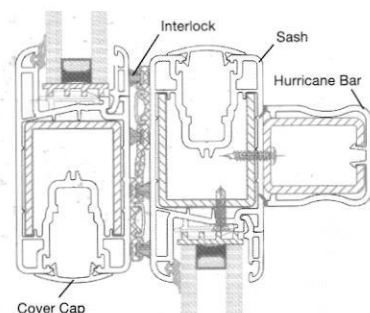
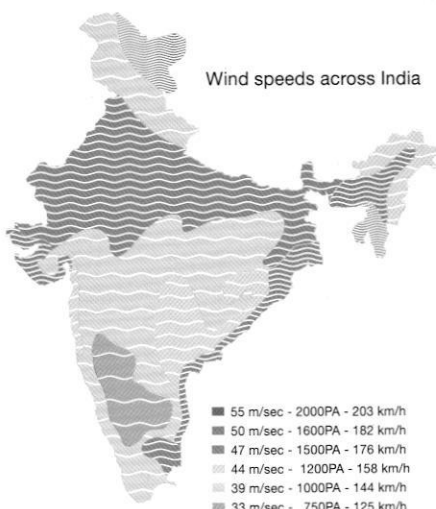
It gets worse in high-rise buildings. What appears to be a mild breeze on the ground floor becomes a gale force in the upper reaches of a tall building. Only Fenesta windows can cope; conventional ones cannot.

Fenesta engineers an air tight solution

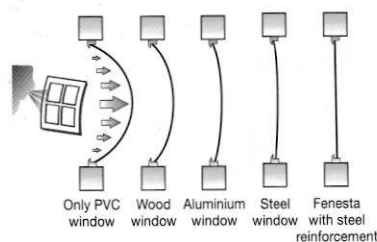
Fenesta Series 3000 windows have broad sections reinforced with steel and further strengthened with a special Hurricane Bar.

The Hurricane Bar doubles up as a handle.

Multiple seals stop air ingress. No more whistling and rattling sounds even at 3000 Pascal wind loads.



Hurricane Bar in series 3000 slider system



Impact of high velocity winds

Window Innovations

Innovation # 3

The Tropical Formulation Barrier against Indian Weather

India happens to be situated in one of the highest UV receiving regions of the world. Solar radiation is far higher in India than other parts of the world.

India also experiences climatic extremes. In summers, temperatures soar to as high as 50°C in the northern parts of Gangetic Plains, Rajasthan and Gujarat. In winters, temperatures in the hills often fall below freezing point.

To withstand the severity of these conditions, Fenesta has created a special uPVC blend, a unique tropical formulation that stands up to extreme radiation year after year.

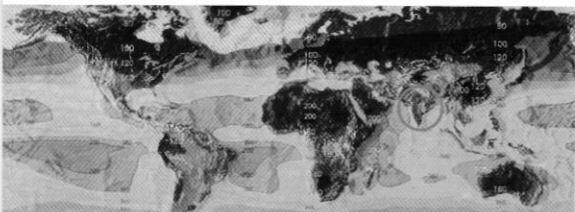
The Fenesta uPVC blend has won BSI approval under extreme weather conditions simulated for 6000 hours. For Europe, a similar test is carried out for only 4000 hours.

Special additives: The Fenesta uPVC innovation for India

- **Titanium Dioxide:** High dosage of TiO_2 results in ongoing colour stability in the face of intense ultraviolet rays. Fenesta takes a color fading guarantee ($\Delta E < 5$), not perceptible to the naked eye
- **Impact modifiers:** These impart additional strength to window profiles, giving them the necessary muscle to carry huge loads
- **Heat stabilizers:** To prevent material degradation & increased weather-ability



Fenesta slider door and combination of fixed and slider door in light oak finish



Global Radiation in kJ/year
Global radiation: Note the intensity in India

45 70 80 100 120 140 160 180 200 220 230 240W/m²
Data provided by the Surface Radiation
Budget Project at NASA Langley Research Center.

Innovation # 4

The Fenesta Customization Made only for You

Fenesta window systems are modular in nature like a Lego set. Combinations of different components make possible countless designs, shapes and sizes, from the modern to the traditional.

Seamless combinations of sliders and casements

This special feature integrates fixed and sliding windows in a single plane without any thick sight lines.

Large sizes

Modern homes have fewer walls and more windows. Fenesta frames can be made to stretch from the floor to the ceiling and span balconies, adding a sense of space to living areas. The strength of a window is determined more by the size of the reinforcement and less by the thickness of the profile.

The Fenesta Villa Window too presents a rare combination of style, substance, sealing and security in sizes that span walls.

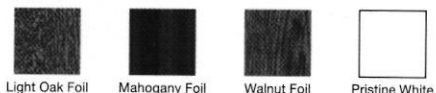
Design freedom

Extend your design palette, from casements and sliders to combinations of fixed, sliders and casements, tilt & turn windows, bay windows and even corner windows with glass-to-glass joints.

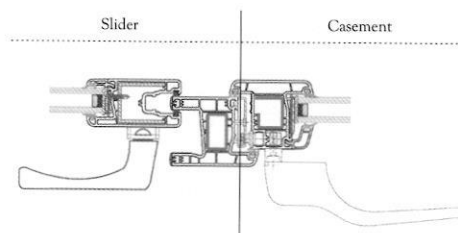
Colour options

- Make your selection from a range of rich wood finish colours (light oak, walnut and mahogany) apart from pristine white.

Standard Fenesta colours



Cross section of seamless combination of slider and casement window



Energy Efficient - The Green Windows

"An energy saving window can save nearly 30% energy", says Prof. N.K. Bansal, Center of Energy Studies, IIT Delhi.

In his expert view "an energy saving window consists of (i) a heat insulating framing material, (ii) double-glazing and (iii) proper sealing between wall and window as well as between the opening and fixed framing of the windows." Fenesta is modeled on these precise lines.

Fenesta: The anatomy of a green window

- **Heat insulating uPVC frame:** uPVC is a poor conductor of heat unlike windows made of steel and aluminum that have a higher U-value

Material	U-value (Watt/m ² °K)
Timber	2.66
Aluminium	4.92
PVC	2.60

Comparison of thermal properties of various window framing materials

- **Better sealing:** Fenesta windows are fusion welded and can be equipped with a multiple-point locking system for excellent sealing
- **Sealing between wall and window:** Fenesta uses silicone sealants to seal all gaps between the walls and windows for better insulation
- **Glazing:** Double glass (or even triple glass in some cases) further improves insulation

Environment friendly

- uPVC has a lower environmental impact in its production

Critical volumes for the production of different materials		
Material	m ³ of air/kg	dm ³ water/kg
PVC	700	3000
Steel	3400	4600
Aluminium	9320	27700

Source: Environmentally friendly packaging in the future. Stichting Milieudefensie (NI), 1991

Energy used in Gjoules/ton	
Material	Energy use
PVC	53
Steel	30
Aluminium	200

Note: Aluminium is extruded cold which is more energy intensive Source: Environmentally friendly packaging in the future. Stichting Milieudefensie (NI), 1991

- uPVC reuse is the norm
- Fenesta uPVC blend (strengthened with special additives) does not require any painting, eliminating the consumption of paints that can emit harmful emissions to the environment
- Long life: The life of a Fenesta uPVC window is equivalent to the life of a building

Green Building Certification

Fenesta windows can contribute to both LEED and GRIHA credit points.



Fenesta Slider Door in Mahogany finish

Innovation # 6

The Villa Window

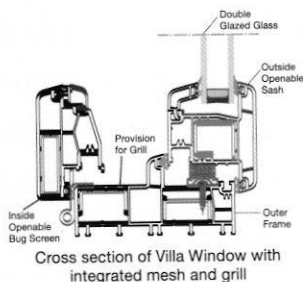
Fenesta technology has made the traditional Indian window the best it can ever be.

The Villa Window is the world's first twin-sash uPVC casement window system that integrates a insect mesh and a security grill with airtight protection against noise, rain and rising energy costs.

Integrated grill

The security grill is an absolute necessity in homes across India. In traditional windows, the grill is screwed to the masonry whereas in the Villa Window, it's integrated with clamps making homes much safer.

Protection from insects and mosquitoes



In India, protection against mosquitoes is a universal window requirement. An insect mesh in the inner sash of the Villa Window system blocks the entry of mosquitoes and insects when you open the window for ventilation.

This is the first uPVC casement window in the world to accommodate a grill in the same frame as a mesh.



Fenesta Villa Window with security grill and bug mesh in light oak finish

The Fenesta EDGE



2 Million+ Installations

The breadth and depth of experience

Since 2003, the company's technology-driven and precision-engineered solutions have transformed more than 150,000 homes across the country.



International Designs

Casements, Sliders, Bay windows, Fixed windows, Combinations windows that stretch from the floor to the ceiling, Bi-fold doors and Designer doors: Over 700 styles in wood foil and color options.



Not just a brand, a Superbrand

India's number one window brand is often copied but never matched. Pan India presence, technology-driven solutions, company-run studios and service have made the brand a 'Superbrand'.



10-year warranty*

The warranty covers profiles and hardware, all components other than glass. The hardware is sourced from the world's leading manufacturers.



Professional Installation

Only Fenesta has teams of trained engineers who supervise site surveys, aperture measurements and the final installation. The process is designed to ensure optimum window performance for decades.



World-class Infrastructure

The hub, wheel and spoke model covers the entire country. The extrusion plant in Kota, Rajasthan is the central hub. The spokes are the three Fenesta factories, close to strategic markets, along with 21 sales offices with presence in more than 150 cities across the country.

An End-to-End Solution



Stage I: Your requirements identified: Should the windows tackle noise in your neighborhood/Project? Or dust? Or rain? Or wind? Or lack of sunlight?

Stage II: The best possible customized solutions found: Fenesta experts recommend the most effective long-term solutions, windows that work best in your project for all time to come.

Stage III: Survey followed by fabrication: The process involves precise measurements of each aperture. Technical drawings are then sent to the production team for fabrication.

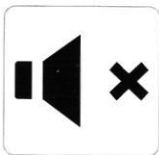
Stage IV: Delivery and installation: The windows arrive at your site at the appointed date. Installation is carried out once the civil work is complete. The installation process involves the use of anchor fasteners and sealants between the wall and the frame.

Stage V: Handover: Once the installation is complete, technicians carry out a practical demonstration of each window for your benefit.

Stage VI: Your feedback: Post installation, the team leader calls you for a 'Customer Satisfaction' Survey. You are requested to rate your Fenesta experience. Your feedback helps in improving the standards of Fenesta service.

Stage VII: After Sales Service: Our customer service cell which works for 365 days is available. You could call us at :1800 102 9880, SMS WINDOW to 56161, or Email at response@fenesta.com to assist you with any help that you require for smooth operations of your windows.

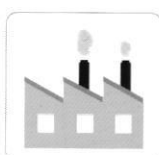
Science@work:



Sound
Insulation



Keeps out
Rain



Non-toxic
Lead free



Dust free
interiors



Low
Maintenance



Energy efficient,
lower AC cost

Certified by global Authorities

Accreditations summary



British Standard Institution, UK



The extrusion facility in Kota conforms to ISO 9001, ISO 14001, OSHAS 18001



Central Building Research Institute, Roorkee



Das Kunststoff-Zentrum

Das Kunststoff - Zentrum



Center for Environmental Planning & Technology, Ahmedabad



Extrusion plant at Kota is the recipient of the **British Sword of Honour** for its unblemished safety record (Year 2009)



Shriram Institute for Industrial Research

(A Unit Of Shriram Scientific & Industrial Research Foundation)

Awards



Won the prestigious **Product of the Year 2015** award by ABID (Association of Architects Builders Interior Designers and Allied Business)



Only Window Brand in the country to be conferred with **Superbrand** status (Year 2015-16)



Best Windows Company Award by Indian Home Congress 2012



Recipient of the **Best Window Treatment Awards** by Goodhomes (Year 2013)



A proud founding member of **Indian Green Building Council** - Part of the Confederation of Indian Industry - CII

International Research Institute, Chennai

Won the national award for Manufacturing Competitiveness instituted by the International Research Institute, Chennai; (Year 2013-14)

The Fenesta Product Range - Windows and Doors



The Villa Window

Fenesta has integrated a grill and bug mesh in the new Villa window, the world's first casement that combines the traditional window design with the advantages of uPVC. The grill enhances security whereas the mesh enables ventilation without the threat of mosquitoes entering the home.

The Tilt and Turn Window

The Tilt and the Turn windows combine state of the art window design with a clean, classic style. This European style windows has two distinct functions, swing it like a door or tilt it at the top. The window also creates an outstanding architectural feature.



The Slider Window and Door

The slider features two or more horizontal sashes on rollers at the bottom for swift and smooth sideways movement on tracks. Easy to open and close, the slider promotes air-circulation and presents a panoramic view. These windows blend perfectly with contemporary architecture.

The Casement Window and Door

The casement window and door feature sashes attached to the frame by hinges. Casement styled windows are hinged on the side and can either swing inward or outward depending on the desired style. The sashes can also be configured to open on the top. The windows come with multiple point locking systems and friction stay that ensures the window remain open in fixed position even in the face of stiff breeze. Casement Doors are equipped with hook locks and 3D hinges which ensure smooth operation.



The Fenesta Product Range - Windows and Doors



The Slide & Fold Door

Nothing looks or works better in rooms overlooking gardens and terraces. Fenesta Slide and Fold Door can elegantly and effortlessly connect your inside space with the environment outside. With these doors nothing stands between you and your view. The panels of the doors can be configured with multiple panels for large openings and can fold smoothly to one side.

The Lift & Slide Door

The door glides back and forth on feather touch rollers. The sealing too is far better than conventional sliders. The expansive glass pane (without any cross-members) provides a panoramic view of the horizon, integrating the indoors with the outdoors. It's a real work of art.



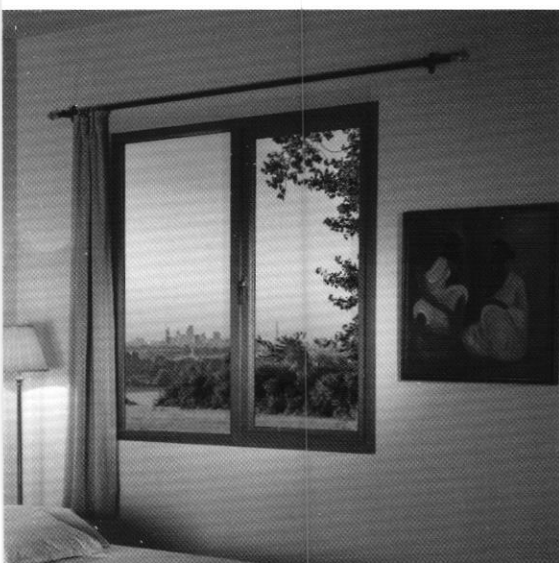
Designer Door

The designer door is what you are looking for when it comes to all doors of your house, main door or other interior doors. The skin is uPVC, while the core has a generous filling of foam for insulation. The design can be customized to match the facade or the décor of a room. It creates an imposing presence at the front entrance or indoors and promises security, protection against rain seepage, sound, dust and thermal insulation, durability and weather endurance.



For more options, please call
our window experts on 1800 102 9880

The Fenesta Premium Series

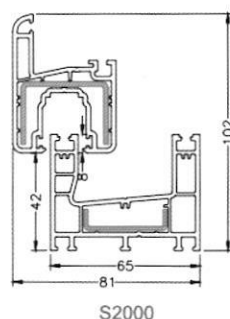


This range has been specially designed for projects.

The Fenesta Premium Series is a value priced product suited to meet your needs for living rooms, bedrooms and kitchens. Prepared from a unique uPVC blend, this series is designed to handle wind loads upto 2000* pascals, making it weather resistant, energy efficient, UV resistant, low maintenance and outlast buildings. Products made from Premium Series retain their shape and sheen for years together. Professional installation by the Fenesta installation team further ensures insulation against noise, dust and pollution.

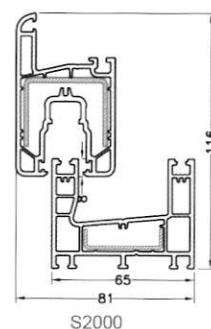
Slider Window System X-Section Sightline

- 1 Differential Wall thickness for corner finish
- 2 Tapered base for water drainage
- 3 Sleeker profiles / bolder Sightline
- 4 Common Profiles & Accessories



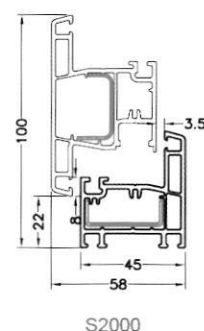
Slider Door System X-Section Sightline

- 1 Differential Wall thickness for corner finish
- 2 Tapered base for water drainage
- 3 Sleeker Sash / Bold Sightline
- 4 Common Profiles & Accessories



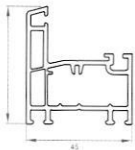
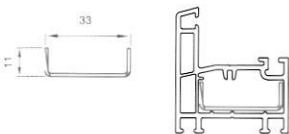
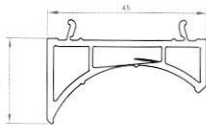
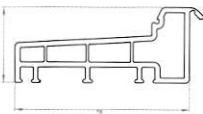
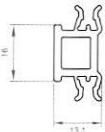
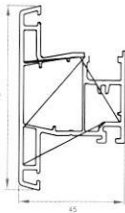
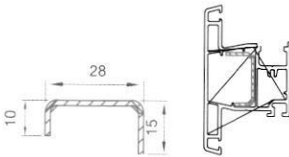
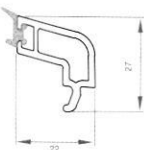
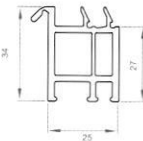
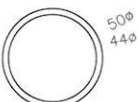
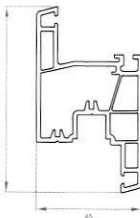
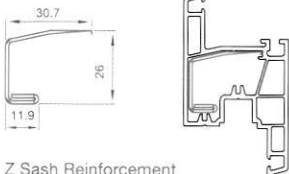
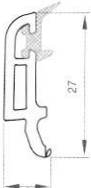
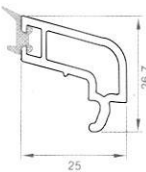
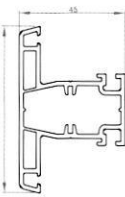
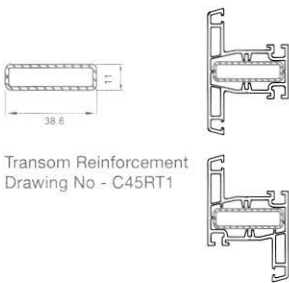
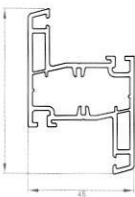
Casement Window System X-Section Sightline

- 1 Euro-groove for standard hardware
- 2 Tapered base for water drainage
- 3 Higher wind load rating
- 4 Common Profiles & Accessories

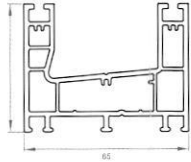
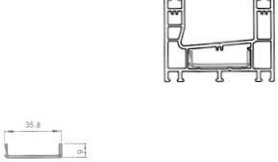
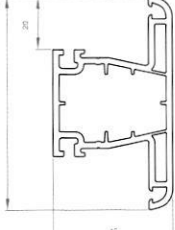
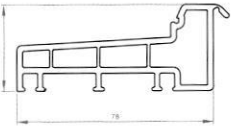
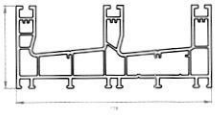
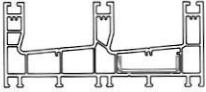
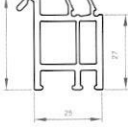
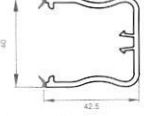
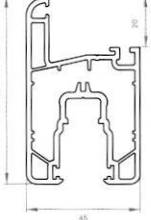
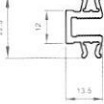
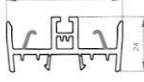
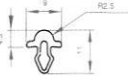
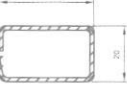
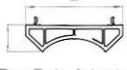
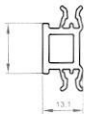
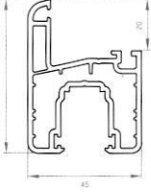
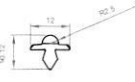
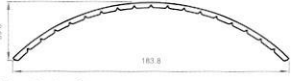


Fenesta Premium Series Portfolio

CASEMENT WINDOWS

	PROFILE	REINFORCEMENT	ACCESSORIES			
OUTER FRAMES	 Casement - Outer Frame Drawing No - C45PF2	 Outer Frame Reinforcement Drawing No - C45RF2	 BB Adaptor Drawing No - C45PO1	 Sill Profile Drawing No - A65PO1	 Structural Coupler Drawing No - A65PO10	
SASH	 Casement - T Sash Drawing No - C45PS1	 T Sash Reinforcement Drawing No - C45RF1	 Single Glaze Bead Drawing No - A65PB1	 Wall Connector Drawing No - A65PO2	 C56 Py1 BAY POLE	
	 Casement - Z Sash Drawing No - C45PS2	 Z Sash Reinforcement Drawing No - C45RS2	 Double Glaze Bead Drawing No - A65PB2	 Glass Bead Drawing No - A45PB1		
TRANSOM/MULLION	 Casement - T Mullion Drawing No - C45PT1	 Transom Reinforcement Drawing No - C45RT1	GASKET  A65GO1 Glazing Gasket 3mm  A65GO3 Glazing Gasket 5mm  A65GO4 Glazing Gasket 1mm  A65GO6 Weather Seal			
	 Casement - Z Mullion Drawing No - C45PT2					

SLIDER WINDOW & DOOR

	PROFILE	REINFORCEMENT	ACCESSORIES		
OUTER FRAMES	 Slider - 2 Track Frame Drawing No - S65PF5	 Outer Frame Reinforcement Drawing No - S56RF1	 Slider Midrail Drawing No - S65PT4	 Sill Profile Drawing No - A65PO1	 Interlock Cover Drawing No - S65PO1
	 Slider - 3 Track Frame Drawing No - S65PF6		 Slider Glaze Bead Drawing No - A65PB1	 Wall Connector Drawing No - A65PO2	 Static Profile Drawing No - S65PO2
SASH	 Slider - Door Sash Drawing No - S65PS2	 Door Sash Reinforcement Drawing No - S65RS6	 Double Glaze Bead Drawing No - A65PB2	 Structural Coupling Drawing No - A65PO4	 Inline Sash Adaptor Drawing No - S65PO3
		 Window Sash Reinforcement Drawing No - S65RS8	 Glass Bead Drawing No - A45PB1	 PVC Rail Drawing No - S65PO7	 Track Cap Drawing No - S65PO4
		 3 Track Mullion / Midrail Reinforcement Drawing No - A65RT3	 Bay Pole Adaptor Drawing No - A65PO6	 Structural Coupler Drawing No - A65PO10	 Monsoon Stop Drawing No - S65PO5
	 Slider - Window Sash Drawing No - S65PS3	 New Aluminium Rail Drawing No - S65A09	 Bay Pole Drawing No - A65PO7		 Interlock Cap Drawing No - S65PO6
		 Aluminium Interlock Drawing No - A45A01R1	 Bay Pole Cover Drawing No - A65PO8		
			GASKET		
			 A65GO1 Glazing Gasket 3mm	 A65GO3 Glazing Gasket 5mm	 A65GO4 Glazing Gasket 1mm

The Fenesta Impact

On Homes:

Our homes are a reflection of our personality. At Fenesta, we strongly believe in this, and as India's largest windows and doors brand, we are committed to providing the best solutions for every home in India. Our wide range includes innovative yet beautiful solutions for every room of your house making it brighter, bigger and even cleaner. Each of our products is a perfect combination of art and science, created as per your environment - Wind Speeds, Rainfall Intensity - and Architectural tastes. So read on and discover how Fenesta won't just transform your home but change the way you live for all times to come.

- Freedom from noise, dust and pollution
- Energy efficiency: reduced electricity bills, comfortable living with minimal environmental impact
- No rain seepage
- Bright and airy rooms
- Specially engineered windows that withstand strong winds: no rattling and whistling
- An uninterrupted view of the world outside
- The merging of balconies and rooms: more space
- A flawless finish: superior aesthetics
- Freedom from maintenance
- A lifelong investment

On Hotels:

Our window and door solutions, with their superior insulation and stunning aesthetics, create a contemporary and luxurious ambience within a hotel room offering guests privacy and comfort of a home. As a result, over 100 luxurious Indian hotels have installed Fenesta.

- Reduce air-conditioning costs by as much as 30% in some cases
- Ensures privacy and noise free environment for guests
- Brighten up the environment
- Improve the view
- Create space: Unite balconies with rooms
- Block noise, rain, wind, dust and pollution
- Reduce street noise by as much 45 decibels
- Increase ventilation (as and when you need to)
- Reduce maintenance costs



On Hospitals:

Advanced insulation properties of our windows and doors protect the patients from noise, dust and pollution, maintaining the much needed peaceful and sterile environment inside. It also makes us the preferred choice of India's leading hospitals.

- Peace and quiet that helps patients recover
- Superior hygiene
- Bright rooms: Sunlight without heat
- Energy saving: Lower air-conditioning costs
- Virtually zero maintenance

These are few reasons why hospitals across India have transformed their environment simply by switching to Fenesta.



Our Clientele:

Residential



Crest NCR, Belair NCR,
Park Place NCR



Shantiniketan Bangalore, Abshot -
Bangalore, Bougain Villa - Bangalore more



Atlantis - NCR, Pirangut Villas - Pune



Blue Sapphire - Kolkata



Iconic - NCR, Mezzaria - NCR,
Moderne - NCR



Twin Towers - NCR,
Forest Spa - NCR



Klasse - NCR



Woodsman Estate - Bangalore



Chloris - NCR, Aura - NCR



Stylome - NCR, Edifice - NCR



Millenium - Bangalore, Gardenia -
Bangalore, Splendor - Bangalore,
Harmony, Paramount more



Blue Mont - Chennai,
West Hills - Chennai



Solitaire - Hyderabad



OMR Chennai, Vytilla Cochin
& NTH Calcutta

And many more

Hotels



Cochin, Landsend,
Mumbai, Hyderabad



NCR



NCR



NCR



Bangalore



Pune, Ahmedbad, Chennai



Gurgaon, Goa, Ahmedabad, Mumbai



NCR



Bangalore, Goa, Hyderabad



Ahmedabad, Indore



NCR

And many more

Hospitals



NCR



Mumbai, Bangalore



Chennai



Mumbai



Mumbai



NCR



NCR

And many more



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Fenesta
Better by Design

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