WINTECH

UPVC SOLUTIONS

Premium uPVC Doors & Windows

ENGINEERING EXCELLENCE FOR MODERN LIVING

Comprehensive Product Guide & Technical Specifications

Comprehensive Product Portfolio

Explore our complete range of precision-engineered uPVC windows and doors, designed to suit every architectural requirement.

1. Casement Windows



The classic choice for maximum ventilation and unobstructed views. Casement windows are hinged at the side and open outward or inward like a door. Because the sash presses firmly against the frame upon closing, they are one of the most energy-efficient window styles available.

- Opens up to 90 degrees for maximum ventilation and easy cleaning.
- Fitted with multi-point locking mechanisms for superior security.
- Double weather-stripping ensures a perfect seal against dust and rain.

2. Sliding Windows



Sleek, modern, and space-saving. Sliding windows glide horizontally on tracks, making them perfect for areas where outward opening space is limited, such as balconies and walkways.

- Smooth and silent gliding mechanism via high-quality heavy-duty rollers.
- Available in 2-track, 3-track, or multi-track systems to accommodate bug screens.
- Interlocking sashes with brush seals prevent dust ingress and rattling.

3. Tilt & Turn Windows



A masterpiece of European engineering, the Tilt & Turn window offers dual functionality controlled by a single handle. Turn the handle 90 degrees to swing it inward like a casement, or 180 degrees to tilt the top inward for secure, draft-free ventilation.

- Draft-free ventilation in tilt mode, full access in turn mode.
- Continuous perimeter locking offers the highest level of air and water tightness.

4. Fixed Windows (Picture Windows)



Fixed windows do not open. They are designed to frame beautiful views, allow maximum natural light into a space, and offer the absolute highest thermal and acoustic insulation since there are no operable gaps.

- Ideal for high-rise buildings and stairwells for unobstructed views.
- Zero maintenance and completely weather-proof.

5. Combination Windows



Combination windows integrate two or more window styles (such as fixed, sliding, and casement) into a single robust frame. This provides a versatile mix of natural light, ventilation, and aesthetic appeal.

- Customizable layouts to fit wide or exceptionally tall openings.
- Provides both operable ventilation and large fixed viewing areas.

6. French Windows



French windows combine classic architectural elegance with modern uPVC benefits. Characterized by their floor-to-ceiling height and classic aesthetic, they open fully from the center without a central pillar (mullion), offering a completely unobstructed view.

- Classic, elegant aesthetic suitable for premium villas and living rooms.
- Maximum opening width for superior airflow.

7. Casement Doors



Our casement doors are built for strength and durability. Perfect for main entrances, back doors, or balcony access, these doors feature heavy-duty 3D hinges that can bear significant weight without sagging.

- Available in single or double sash configurations.
- Multi-point cylinder locking system spanning the entire height for maximum security.

8. Sliding Doors



Transform your living space by connecting the indoors with the outdoors. Wintech sliding doors are designed for large openings, bringing in abundant natural light and gliding effortlessly on tandem rollers.

- Space-saving design ideal for patios, decks, and garden entrances.
- Heavy-duty interlocking mechanics for excellent wind resistance.

9. Slide & Fold Windows and Doors (Bi-Fold)



For the ultimate luxury architectural statement, our Slide & Fold systems allow you to open up an entire wall. The panels fold back like an accordion, stacking neatly to one side, creating a 100% clear opening.

- Available in both window sizes (serving hatches) and full door sizes.
- Completely merges indoor spaces with outdoor patios or gardens.

Company Overview

At Wintech UPVC Solutions, we are dedicated to transforming spaces through innovative, durable, and aesthetically pleasing window and door systems.

Our Story

Welcome to Wintech UPVC Solutions, a premier manufacturer and supplier of high-quality Unplasticized Polyvinyl Chloride (uPVC) windows and doors. Founded on the principles of engineering precision and customer-centric design, we have grown to become a trusted name in the fenestration industry. Our journey began with a simple mission: to provide modern homes and commercial establishments with smart, energy-efficient, and zero-maintenance facade solutions that withstand the test of time and weather.

We operate a state-of-the-art manufacturing facility equipped with advanced European machinery. This allows us to deliver precision-engineered products that meet rigorous international quality standards. From the initial extrusion of the uPVC profiles to the final installation at your site, every step of our process is monitored by a stringent quality control team.

Our Mission & Vision

Mission: To manufacture and deliver top-tier uPVC window and door systems that offer superior insulation, enhanced security, and timeless elegance, while providing unparalleled service to our clients.

Vision: To be the industry leader in sustainable and innovative fenestration solutions, continually setting new benchmarks for quality, design, and environmental responsibility.

Core Values

- **Uncompromising Quality:** We use only the finest raw materials and hardware to ensure our products perform flawlessly for decades.
- **Innovation:** We continuously upgrade our technology and designs to meet the evolving architectural needs of modern buildings.
- **Sustainability:** Our uPVC profiles are lead-free, 100% recyclable, and designed to significantly reduce the carbon footprint of buildings through superior thermal efficiency.
- **Customer Satisfaction:** We believe in building lasting relationships through transparent communication, timely delivery, and dedicated after-sales support.

The uPVC Advantage

Unplasticized Polyvinyl Chloride (uPVC) has revolutionized the building materials industry. Unlike traditional wood or aluminum, uPVC offers a unique combination of benefits that make it the ultimate choice for windows and doors.

1. Exceptional Thermal Insulation

uPVC is a natural insulator. Our multi-chambered profile designs trap air, creating a highly effective barrier against heat transfer. In summer, it keeps the intense heat out, and in winter, it retains the warmth inside. This thermal efficiency significantly reduces the load on your HVAC systems, leading to energy savings of up to 30% on electricity bills.

2. Acoustic Performance (Soundproofing)

Urban living comes with unwanted noise pollution. Wintech uPVC windows, when combined with appropriate double or triple-glazed glass and our specialized EPDM sealing gaskets, can reduce outside noise by up to 40 decibels (dB). This ensures a peaceful and tranquil indoor environment, making them ideal for homes near busy roads, airports, or commercial zones.

3. Unmatched Durability & Weather Resistance

Our uPVC profiles are specially formulated with high-quality UV stabilizers and impact modifiers. They are engineered to withstand harsh weather conditions, including torrential rain, extreme heat, and high winds, without warping, fading, cracking, or peeling. Unlike wood, they are 100% termite-proof, and unlike aluminum, they will never corrode or pit, even in coastal areas with high salt content in the air.

4. Enhanced Security

Security is paramount. Wintech uPVC profiles are reinforced with concealed galvanized steel, providing immense structural strength. Furthermore, our windows and doors are equipped with modern multi-point locking systems that secure the sash to the frame at multiple points with the simple turn of a handle, offering robust protection against forced entry.

5. Zero Maintenance

Say goodbye to the tedious chores of sanding, varnishing, or repainting. Wintech uPVC windows and doors require virtually no maintenance. Their smooth, non-porous surfaces repel dirt and can be easily cleaned with just a soft cloth and mild soapy water, keeping them looking brand new for their entire lifespan of 40+ years.

6. Eco-Friendly and Sustainable

Our commitment to the environment is reflected in our products. Wintech uPVC profiles are completely lead-free and non-toxic. The extended lifespan of uPVC means fewer replacements, and at the end of their life cycle, the materials are 100% recyclable. Additionally, the energy saved through their insulation properties contributes significantly to lowering greenhouse gas emissions.

Anatomy of a Wintech Window

What makes a Wintech window superior? It is the meticulous attention to detail and the high-grade components hidden within the sleek exterior.

Technical Composition

- **Multi-Chambered uPVC Profile:** The core of our windows features 3, 4, or 5 distinct internal chambers. These chambers provide structural rigidity and trap dead air for thermal and acoustic insulation.
- **Galvanized Steel Reinforcement:** Every main profile is internally reinforced with G.I. (Galvanized Iron) steel liners ranging from 1.2mm to 2.0mm in thickness, depending on the wind load requirements. This prevents bending and allows for large-scale window designs.
- **EPDM Weather Gaskets:** We use high-grade Ethylene Propylene Diene Monomer (EPDM) rubber gaskets. These provide an airtight and watertight seal, preventing dust, water, and drafts from entering the premises.
- **Fusion Welded Joints:** Unlike aluminum windows which are mechanically joined with screws, Wintech uPVC corners are fusion-welded at extremely high temperatures. This creates a solid, single-piece frame that is structurally superior and completely leak-proof.
- **Glazing Bead:** A co-extruded glazing bead securely holds the glass in place while allowing for easy glass replacement if ever required.

Product Range: Casement Windows

The classic choice for maximum ventilation and unobstructed views. Casement windows are hinged at the side and open outward or inward like a door.

Overview

Wintech Casement Windows are designed to offer maximum airflow and a tight seal against weather elements. Because the sash presses firmly against the frame upon closing, they are one of the most energy-efficient window styles available. They are operated by a heavy-duty friction stay mechanism, allowing the window to stay open at any desired angle without slamming shut in the wind.

Key Features

- Available in single, double, or multi-pane configurations.
- Opens up to 90 degrees for maximum ventilation and easy cleaning from the inside.
- Fitted with multi-point locking mechanisms for superior security.
- Double weather-stripping ensures a perfect seal against dust and rain.
- Compatible with mosquito meshes (pleated or fixed).

[Insert Casement Window Product Photo Here]

Technical Specifications

Specification	Details
Profile Depth	60mm / 70mm options
Number of Chambers	3 to 5 chambers
Steel Reinforcement	1.5mm - 2.0mm Galvanized Steel

Specification	Details
Glass Compatibility	5mm to 24mm (Single or Double Glazing)
Hardware	Friction stays, Espagnolette rollers, Premium handles
Ideal Application	Bedrooms, Living Rooms, Kitchens, Bathrooms (with frosted glass)

Product Range: Sliding Windows

Sleek, modern, and space-saving. Sliding windows glide horizontally on tracks, making them perfect for areas where outward opening space is limited.

Overview

Wintech Sliding Windows offer a contemporary aesthetic and smooth operation. Consisting of two or more sashes that slide horizontally on nylon or brass rollers, these windows provide excellent natural light and are incredibly easy to operate. They are the go-to solution for balconies, high-rise apartments, and walkways where projecting windows would be an obstruction.

Key Features

- Space-saving design; does not intrude into interior or exterior spaces.
- Smooth and silent gliding mechanism via high-quality, heavy-duty rollers.
- Available in 2-track, 3-track, or multi-track systems to accommodate bug screens.
- Interlocking sashes with brush seals prevent dust ingress and rattling.
- Touch-lock or multi-point lock options available.

[Insert Sliding Window Product Photo Here]

Technical Specifications

Specification	Details
Profile Depth	60mm / 80mm / 88mm / 112mm (depending on tracks)
Track Options	2-Track, 2.5-Track, 3-Track
Steel Reinforcement	1.5mm Galvanized Steel in sashes and outer frames
Glass Compatibility	5mm to 20mm (Single or Double Glazing)
Hardware	Nylon/Brass rollers, Pop-up locks, Crescent locks
Ideal Application	Balconies, Corridors, Large Living Room openings, High-rise buildings

Specialty Windows

For architectural distinction and versatile functionality, Wintech offers advanced European-style window systems and custom shapes.

Tilt & Turn Windows

A masterpiece of European engineering, the Tilt & Turn window offers dual functionality controlled by a single handle. Turn the handle 90 degrees, and the window swings inward like a standard casement window for full ventilation and easy cleaning. Turn the handle 180 degrees, and the top of the sash tilts inward, providing draft-free ventilation and rain protection while maintaining absolute security.

- **Versatility:** Draft-free ventilation in tilt mode, full access in turn mode.
- **Safety:** Tilt mode is ideal for continuous ventilation without the risk of children falling out or intruders entering.
- **Sealing:** Offers the highest level of air and water tightness due to continuous perimeter locking.

Villa Windows

Wintech Villa Windows are uniquely designed for the Indian market, combining three elements in one frame: an integrated bug screen, an aesthetically pleasing MS (Mild Steel) grill for security, and a glass sash. It offers the traditional security of a grill without compromising the modern benefits of uPVC.

Fixed / Picture Windows

Fixed windows do not open. They are designed to frame beautiful views, allow maximum natural light into a space, and offer the highest possible thermal and acoustic insulation. They are often combined with casement or sliding windows to create large, dramatic glass facades.

Premium uPVC Doors

Make a grand entrance. Wintech uPVC doors combine robust security, exceptional insulation, and stunning visual appeal to enhance any architectural style.

Casement Doors (Hinged Doors)

Our casement doors are built for strength and durability. Perfect for main entrances, back doors, or balcony access, these doors feature heavy-duty 3D hinges that can bear significant weight without sagging. They feature a multi-point locking system spanning the entire height of the door, ensuring maximum security. Available with low aluminum thresholds for easy wheelchair and foot traffic access.

Sliding Doors

Transform your living space by connecting the indoors with the outdoors. Wintech sliding doors are designed for large openings, bringing in abundant natural light. Engineered with heavy-duty tandem rollers, even oversized doors glide effortlessly with the push of a finger. They are the ideal choice for patios, decks, and garden entrances.

Slide & Fold Doors (Bi-Fold)

For the ultimate luxury architectural statement, our Slide & Fold doors allow you to open up an entire wall. The door panels fold back like an accordion, stacking neatly to one side. This creates a 100% clear opening, completely merging your indoor living room with your outdoor patio or garden. Perfect for entertaining and enjoying panoramic views.

Door Technical Specifications

Door Type	Max Width per Panel	Max Height	Hardware Focus
Casement Door	900mm	2400mm	3D Hinges, Multi-point cylinder lock
Sliding Door	1500mm	2700mm	Heavy-duty tandem rollers, hook locks
Slide & Fold Door	900mm	2400mm	Top & bottom guided track rollers, concealed hinges

Advanced Glass Solutions

The glass typically makes up 70-80% of a window. Wintech offers a comprehensive range of high-performance glazing options to meet your specific needs for safety, acoustics, and energy efficiency.

1. Standard Clear Glass

High-quality annealed or float glass that provides maximum visible light transmission and uncolored views. Ideal for standard residential applications where extreme insulation or safety is not the primary concern.

2. Toughened (Tempered) Safety Glass

Heated and cooled rapidly during manufacturing, toughened glass is up to five times stronger than standard glass. If broken, it shatters into small, blunt, cube-like pieces rather than dangerous sharp shards, making it a critical safety feature for full-length doors and low-level windows.

3. Laminated Safety & Acoustic Glass

Comprises two panels of glass bonded together with a tough PVB (Polyvinyl Butyral) interlayer. It provides excellent security (it holds together even when shattered) and is highly effective at blocking high-frequency noise, making it the top choice for soundproofing.

4. Double Glazed Units (DGU)

The ultimate solution for thermal and acoustic insulation. A DGU consists of two glass panes separated by an aluminum spacer bar filled with a moisture-absorbing desiccant. The gap between the panes is filled with dehydrated air or Argon gas. DGUs drastically reduce heat transfer, keeping your home cooler in summer and warmer in winter, while cutting electricity costs.

5. Tinted & Frosted Glass

Tinted glass reduces solar glare and heat gain, while frosted or patterned glass provides privacy without sacrificing natural light. Ideal for bathrooms, walk-in closets, and street-facing ground-floor windows.

Hardware & Accessories

A window is only as good as its hardware. Wintech uses premium, corrosion-resistant hardware designed for smooth operation and maximum security.

- **Handles:** Ergonomically designed handles in various finishes (White, Silver, Gold, Black) featuring key-locking options for added security.
- **Friction Stays:** High-grade stainless steel friction hinges that hold casement windows open at any angle, even in strong winds.
- **Multi-Point Locks:** Engaging at multiple points along the frame simultaneously, these locks provide exceptional security against forced entry and ensure a tight weather seal.
- **Rollers:** Heavy-duty nylon and brass rollers ensure that even the heaviest double-glazed sliding sashes operate with silent, effortless gliding.

- **Mosquito Meshes:** We offer integrated insect screens, including durable fiberglass mesh on sliding tracks, pleated (zigzag) mesh for large doors, and robust SS (Stainless Steel) mesh for added security against pests and rodents.

Color Options & Finishes

Express your architectural style. Wintech uPVC profiles go beyond standard white, offering a range of stunning laminated finishes that mimic the rich texture of natural wood without the maintenance.

Our colored profiles are created using advanced hot-melt lamination technology with premium UV-resistant foils imported from Europe. These foils will not peel, blister, or fade under intense sunlight.

Available Finishes:

- **Pristine White:** The classic, clean look that suits almost any modern or contemporary architecture. Features a smooth, glossy finish that is highly resistant to staining.
- **Golden Oak:** A warm, mid-tone woodgrain finish that brings a classic, traditional feel to residential homes.
- **Dark Walnut:** A deep, rich, elegant wood texture perfect for premium villas and contemporary commercial buildings.
- **Mahogany:** A reddish-brown classic woodgrain that adds a touch of heritage and luxury to the facade.
- **Anthracite Grey:** A sleek, modern matte finish highly popular in contemporary and industrial-style architecture.

Manufacturing & Quality Assurance

Quality is not an act, it is a habit. At Wintech, every window and door undergoes a rigorous journey from raw material to finished product.

The Manufacturing Process

1. **Precision Cutting:** uPVC profiles and steel reinforcements are cut to exact millimeter dimensions using automated double-head cutting saws.
2. **Steel Insertion:** Galvanized steel is inserted and securely fastened inside the profiles for structural integrity.
3. **Routing & Drilling:** Automated CNC machines route water drainage slots and drill precise holes for handles and locking mechanisms.
4. **Fusion Welding:** Profile corners are melted and fused together at 250°C, creating a seamless, immensely strong joint.
5. **Corner Cleaning:** Automated corner cleaners remove excess weld sprues, leaving a flawless, aesthetic finish.
6. **Hardware Assembly & Glazing:** Premium hardware is attached, EPDM gaskets are installed, and the chosen glass is carefully fitted and beaded.

Quality Control Tests

Before any product leaves our facility, it is subjected to strict quality checks, including:

- **Dimensional Accuracy:** Ensuring the frame perfectly matches the site measurements.
- **Weld Strength Test:** Corners are pressure-tested to ensure they will not break under structural stress.
- **Water Tightness:** Drain slots and gaskets are checked to guarantee zero water leakage.
- **Hardware Operation:** Every handle, lock, and roller is operated manually to ensure smooth functionality.

Installation & Care Guide

A superior window requires superior installation. Our trained technical teams ensure your Wintech products are installed perfectly for lifetime performance.

Professional Installation

Wintech employs factory-trained installation crews. We do not rely on sub-contractors. Our process involves:

- **Site Survey:** Precise laser measurements are taken before fabrication begins.
- **Leveling & Plumb:** Frames are installed using laser levels to ensure they are perfectly straight, preventing future operational issues.
- **Anchoring:** Frames are anchored securely to the masonry using high-grade expansion fastners.
- **Sealing:** The gap between the uPVC frame and the wall is filled with professional-grade Polyurethane (PU) foam for insulation, and finished with weather-resistant structural silicone sealant for a neat, waterproof finish.

Maintenance Made Easy

Wintech uPVC products are designed to be virtually maintenance-free. Follow these simple steps to keep them looking and functioning like new:

- **Cleaning:** Wash the frames every few months with mild soap and water. Never use abrasive cleaners, steel wool, or harsh solvents like acetone or thinner.
- **Hardware Lubrication:** Once a year, apply a few drops of light machine oil (or silicone spray) to the hinges, locks, and metal moving parts to ensure continuous smooth operation.
- **Gasket Care:** Wipe the rubber gaskets with a damp cloth to remove dust and prevent them from drying out.
- **Track Cleaning:** Use a vacuum cleaner nozzle to remove dust and debris from the sliding tracks to ensure the rollers glide smoothly.

Our Guarantee

- **20-Year Profile Warranty:** Covers discoloration, warping, cracking, and peeling of the uPVC profiles under normal environmental conditions.
- **1-Year Hardware Warranty:** Covers manufacturing defects in handles, hinges, rollers, and locking mechanisms.
- **Dedicated Service:** Prompt after-sales service and support for any adjustments or maintenance requirements.

Get in Touch with Wintech

Ready to upgrade your living spaces with premium uPVC solutions? Contact our experts for a free consultation, site visit, and customized quotation.

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