

# Tilt & Turn Window Installation

Professional installation guide for European UPVC and European Aluminum block frame systems including windows, doors, patio doors, and French doors. Two primary installation methods available: strap anchors for wood framing or direct through-frame fixing for concrete/steel structures.

01

## Pre-Installation & Rough Opening

Verify new unit dimensions match rough opening before removing existing windows. Ensure opening is plumb, level, and square with  $\frac{1}{2}$ " to 1" clearance. Install sill pan flashing sloped to exterior for water protection.

03

## Preparing Window & Anchors

Remove sash for large units to reduce weight. Install strap anchors in outer channel. Place first anchor maximum 6 inches from corners, space remaining points 16" to 24" apart.

## Fastening Methods

### Option A: Strap Anchors

#### Standard for Wood Framing

- Bend anchors tightly around wall studs
- Place shim behind anchor before driving screw
- Secure with #8 or #10 construction screws
- Prevents frame bowing during installation

#### Insulation & Waterproofing

Apply low-expansion window foam in interior gap. Insert foam backer rod in exterior gap and seal with neutral cure 100% silicone or polyurethane. Never use acid cure silicone or high-expansion foam. Ensure weep holes remain unblocked.

02

## Joining Multiple Units

Use system-specific coupling profiles with continuous silicone sealant for mulled units. Steel-reinforced static mullions required for oversized combinations. Consult engineering for specific configuration requirements.

04

## Setting & Leveling

Use composite/plastic shims on sill. Ensure frame is perfectly plumb and level using 4ft level. Measure diagonals—difference must not exceed 1/8" for proper hardware operation.

### Option B: Direct Through-Frame

#### Recommended for Concrete/Steel

- Step-drill with countersinking technique
- Place shim at every screw location
- Use concrete screws (Tapcon) or self-drilling screws
- Install plastic caps over screw heads

#### Post-Installation Finishing

Remove protective tape immediately to prevent sun baking. Clean frames with warm water and mild detergent using wet cloths. Check operation of all units and demonstrate proper use to client. Provide comprehensive care and maintenance guide.

### Critical Safety Warning

Do NOT remove existing windows until new units arrive and dimensions are verified. Improper installation can compromise structural integrity and water resistance. Always consult engineering department for oversized or non-standard configurations.

# Disclaimer

This installation guide is provided for general reference purposes only. It does not replace professional judgment, local building code requirements, or manufacturer-specific instructions. The manufacturer and seller assume no liability for improper installation.

## Professional Installation Notice

This product is intended to be installed by a qualified and experienced professional installer. DIY installation is not recommended.

## Code Compliance

Installation must comply with all applicable local and state building codes, including IRC, IBC, and IECC requirements, as well as any site-specific conditions.

## Installer Responsibility

The installer is responsible for verifying site conditions, selecting the appropriate installation method, ensuring proper anchoring, insulation, waterproofing, and final performance of the installed unit.

## Engineering Review Required

Oversized units, mulled combinations, or non-standard configurations may require engineering approval prior to installation.

## Important – Water Management

Drainage paths and weep holes must remain unobstructed at all times. Blocking weep holes may result in water intrusion and void performance expectations.

## Limitation of Liability

The manufacturer and distributor shall not be held responsible for damages resulting from improper installation, non-compliance with codes, or failure to follow professional installation practices.

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