

TECHNICAL SPECIFICATIONS

Technical Specification - uPVC Casement Windows & Doors

Providing and fixing factory made uPVC Casement Windows & Doors of Fenesta make, consisting of uPVC multi-chambered frame, sash & mullion/transom (wherever required) Profile of high impact modified grade uPVC of Outer Frame 65mm X 58mm (Window) / 65mm X 73mm (Door) and Sash of 65mm X 80/ 105mm, wall thickness of profile must be min 2.3 ± 0.2 mm which shall be manufactured from Tropicalized Blend with TiO₂ and required additives. The Systems shall be resistant to chemicals, and be fungal and vermin proof. The profiles must be colorfast, being able to withstand weather resistance test of 16000 hours on weathering apparatus. The uPVC should be classed as self extinguishing to prevent support or enhancement of accidental fires. Companies must have their own production facilities (Extrusion & Fabrication) in India & control the entire cycle from Extrusion to Installation to Post Sales Service and company must In-house wind load testing facility. The extrusion process must be quality controlled and the appropriate standards relating to impact strength, technical performance and consistency. Extruded profile duly reinforced with 120 GSM zinc coated GI of 1.5mm to 2.5mm minimum thickness to meet the wind load Requirement on sash/mullion & fitted in continuous length in closed chamber of required length (shape & size according to uPVC profile design), The internal drainage shall be isolated from chambers into which reinforcements can be placed or through which frame fixing pass. Drainage shall be either through the base or alternatively to the face, concealed by face drainage caps. uPVC Casement windows & doors systems must be fabricated with fusion welded corners & uPVC extruded glazing beads of appropriate dimensions with EPDM/TPE Gaskets.

All hardware fitted must be of stainless steel friction stay, multipoint espag etc. plastic packers, plastic caps & necessary stainless steel screws, except handles to be of zinc/Al. alloy casted with powder coated, GI fasteners 100 X 8 mm size for fixing frame to wall. After fixing the frame the gap between frame and adjacent finished wall shall finally applying neutral cure low modulus Silicone sealant to make joint water proof of approved quality. Windows must meet the requirements with respect to Air permeability – Class 2, Water tightness upto 600 pa and Wind load upto 2400 pa.

There would be a conditional warranty of 20 years on Profile & One year on hardware from the date of Installation & uPVC systems must be installed by profile manufacturer only. Supplier should be having min 20 years of experience in extrusion & fabrication.

Standards & Tests:

Follow the British Standard BS EN 12608 UK, Tested by Central Building Research Institute, Roorkee, CEPT Ahmedabad, & Shriram Institute of Industrial Research, New Delhi.