

BETTER FORMULATION = BETTER DURABILITY

Our Magnus and Valencia windows and doors contain proprietary uPVC formulation and the vinyl extrusion process produces superior window and door systems that outlast and outperform alternative materials.

Extrusion

uPVC (polyvinyl chloride) resin is combined with other raw materials and loaded into a large funnel where it is heated to melting. The molten raw material is extruded through a set of high-grade steel blocks called dies. The vinyl profile that emerges is then cut to specific lengths called lineals, which when welded, form a premium vinyl window or door system.

Technology

Advanced extrusion technology drives precise standards. Proprietary tool and die sets are designed and built to achieve higher standards – from aesthetics to operation, energy efficiency to sustainability, structural integrity to innovative design. The results are window and door profiles with quality engineering and outstanding structural, surface, and mechanical qualities.

Formula

The uPVC formulation that fuels extrusion is a closely held secret. The formula includes above-average quantities of titanium dioxide stabilizers and impact modifiers to protect against fading from solar radiation.

Finish

The unique uPVC formula results in a higher than average surface gloss level for a high-definition finish. This enhances the ability to repel dirt and retain color with UV stability.

Testing

Every window and door design undergoes rigorous testing to meet or exceed air, water, and structural benchmarks set by the North American Fenestration Standard (NAFS) and AAMA. During extensive weather testing for five years in Arizona, Florida, and Ohio, uPVC continuously outperformed standard vinyl.

Assurance

It is essential to continually monitor and improve every process for quality assurance. That is why the latest technologies, research, and machinery are used to test and assure consistent quality that meets the strictest standards.