

# DESIGN WITHOUT LIMITS USING IWS® CAST-IN-PLACE WINDOWS



Tilt-up construction has long been valued for its speed, cost-efficiency, and strength. However, traditional punch or framed windows installed after panels are tilted often introduce added costs, labor inefficiencies, water leaks, ongoing caulking maintenance, alignment issues, and inconsistent aesthetics.

Integrated Window Systems® (IWS) has changed that with the only cast-in-place window system designed specifically for tilt-up construction. Engineered for performance and built to simplify the jobsite, the IWS system continues to draw interest from architects, general contractors, design-build teams, and concrete professionals seeking smarter, faster, and more reliable solutions.

## CAST-IN-PLACE SYSTEM WITH IWS®

Our approach integrates clerestory punch windows directly into the tilt panel during casting. Frames are set into the forms before the concrete is poured, allowing them to be embedded, aligned, and securely positioned with precision from the start.

**SET**



**PLACE**



**TILT**



Using a simple three-step process—Set → Place → Tilt—IWS eliminates many of the costly and time-consuming steps of traditional installations. Because the windows are cast in place, there's no need for exterior caulking or finishing work at the frame-to-concrete interface. This eliminates common failure points and dramatically reduces long-term maintenance.

***Let us partner with you to build smarter, stronger, and better.***

# STRUCTURAL INTEGRITY WITH DESIGN FREEDOM

Engineered for today's building demands, IWS cast-in-place windows deliver performance ratings far exceeding traditional systems while offering aesthetic flexibility. Key advantages include:

- **Superior Performance** – Up to 1,000 times the thermal efficiency of aluminum windows, rated to withstand winds up to 225 mph.
- **Design Flexibility** – A wide range of color options allows seamless alignment with your design vision, while the integrated concrete chamfer lines up precisely with reveals for a unified façade.
- **Clean, Modern Aesthetic** – No exterior caulking creates a seamless look and reduces long-term maintenance.
- **Confidence in Specification** – Windows combine performance, durability, and design consistency, reducing risk for both architects and owners.

**The impact:** Architects can specify a system that protects their reputation, delights clients, and simplifies detailing—ensuring their designs stand out for both performance and appearance.

## HIGH PERFORMANCE TECHNOLOGY

Each unit is rigorously tested to meet high performance standards for design pressure, wind load, and durability, and offers flexibility with full glass options, multiple colors, and compatibility with standard wall widths.

In the field, IWS's system has proven to streamline projects and improve outcomes for the entire build team, delivering faster coordination, lower risk, and more consistent results.

**NEW TEST RESULTS**  
**RATED AT 225 MPH WINDS**  
**CAT 5 HURRICANES AND TORNADOES**  
**WATER INFILTRATION RESISTANCE:**  
33% higher than current products.  
No loss of resistance in the future due to caulk failure.  
**THERMAL PERFORMANCE:**  
uPVC thermal conductivity is 1,000 times better than aluminum.

TITLE	RESULTS
AAMA/WDMA/CSA 101/I.S.2/A440-22	CW-PG100-FW 1524 x 1524 (60 x 60)
Design Pressure	±6240 Pa (±130.33 psf)
Air Infiltration	<0.10 L/s/m <sup>2</sup> (<0.01 cfm/ft <sup>2</sup> )
Water Penetration Resistance Test Pressure	960 Pa (20.05 psf)
Uniform Load Structural Test Pressure	±9360 Pa (±195.49 psf)
Forced Entry	Type D Grade 10

## ADVANCING YOUR TILT-UP PROJECTS

As the tilt-up industry continues to evolve toward faster, safer, more durable, and more aesthetically refined buildings, cast-in-place window systems represent a true leap forward. For every stakeholder—contractors, architects, owners, and glaziers—the benefits are clear: lower cost, shorter schedules, higher quality, less maintenance, and better peace of mind.

If you're ready to explore how IWS's Cast-In-Place Window System can elevate your next project by reducing waste, streamlining coordination, and ensuring long-term performance, contact our team today for specifications, pricing, and a project consultation.



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