

Clear-View Inc Launches HurricaneGuard Window System to Address Regional Storm Resilience

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Clear-View Inc officially launched its certified HurricaneGuard window technology line in Palm Harbor, Florida, today to meet updated coastal building code requirements. The release provides regional property owners with architectural glass systems tested to withstand extreme pressure differential and severe debris impact during tropical storms.

The product line completed structural testing at Intertek Testing Services under ASTM E1886, ASTM E1996, and Testing Application Standard (TAS) 201, 202, and 203 protocols, documented under Intertek Report No. 10485921-CRT. Certification data verifies that the units achieve a Design Pressure rating of positive and negative 80 pounds per square foot and withstand ASTM E1996 Large Missile Level D impacts, consisting of nine-pound two-by-four lumber impacts at 50 feet per second.

The window system earned official Florida Product Approval FL-49201 and meets all provisions outlined in Section 1609 of the 8th Edition Florida Building Code, including High-Velocity Hurricane Zone specifications. Structural assembly involves multi-layered laminated glass bonded by 0.090-inch structural polyvinyl butyral interlayers set within heavy-gauge extruded aluminum framing.

The engineering deployment directly targets vulnerability points identified in local storm evaluations analyzing hurricane impact in Palm Harbor, FL. According to post-storm building research published in the Insurance Institute for Business & Home Safety 2022 Study, fenestration failures allow wind pressure to enter structures, which increases internal uplift loads on roof assemblies during severe wind events.

Rather than guaranteeing absolute indoor climate control, performance metrics reflect laboratory testing conducted under National Fenestration Rating Council (NFRC) 100 and 200 standards. Test reports confirm an overall U-factor of 0.28 BTU/h·ft²·°F and a Solar Heat Gain Coefficient of 0.21, measuring thermal resistance and solar radiation block under controlled environmental conditions.

Alongside the commercial launch, Clear-View Inc introduced a public mitigation technical resource for

architectural specifiers and property managers. The published technical material outlines objective structural audit procedures, fastener load calculations, and code-compliant installation methods for coastal retrofit projects.

The educational materials incorporate empirical analysis examining damage evaluations from the Pinellas County Emergency Management post-storm assessment following Hurricane Irma in September 2017, which documented specific patterns of hurricane impact in Palm Harbor, FL. Technical documentation is accessible directly through the company engineering portal for municipal code officials, general contractors, and local property owners.

The technology received formal recognition from the Fenestration and Glazing Industry Alliance during its Annual Conference on September 25, 2023, as announced on the FGIA News Portal. The association presented Clear-Vue Inc with its 2023 Architectural Design Excellence Award for integrating high-velocity impact performance with energy efficiency standards.

Full-scale structural evaluation required 36 months of physical stress testing and environmental conditioning at accredited testing facilities. Engineering trials measured water resistance under cyclic wind pressure up to 15 pounds per square foot, frame deflection limits, and structural anchor load retention under extreme tension.

Technical documentation confirms the window units feature 6063-T6 architectural-grade extruded aluminum alloy frames treated with marine-grade powder coating to prevent galvanic corrosion in coastal environments. Stainless steel assembly fasteners and multi-point locking mechanisms maintain structural engagement under repeated loading cycles without wall envelope modification.

Clear-Vue Inc will expand assembly lines at its central Florida manufacturing facility to supply regional commercial retrofits, municipal infrastructure, and residential construction projects. Final compliance documentation, installation instructions, and lab test reports are published for structural engineers and municipal building departments.

Founded in 1998, Clear-Vue Inc specializes in the design, testing, and manufacturing of high-performance architectural fenestration systems. The organization supplies impact-rated residential and commercial window products built to meet Florida High-Velocity Hurricane Zone codes and national energy efficiency criteria.

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For more information about Clear-Vue Inc, contact the company here:[Clear-Vue Inc](#)[Clear-Vue Inc](#)(727)

726-5386Clear-VueInc@gmail.com

Clear-Vue Inc

Website: <https://www.clearviewwindows.net/>

Email: Clear-VueInc@gmail.com

Phone: (727) 726-5386