



Crystal Window & Door Systems provides windows for Roslyn Highlands Fire Department station

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Roslyn Heights, NY The Roslyn Highlands Fire Department (RHFD) station at 270 Warner Ave. is sporting an updated façade of new windows from national manufacturer Crystal Window & Door Systems. Crystal supplied 96 new energy efficient aluminum windows replacing the fire house's original wood windows to modernize the facility, reduce energy expenses, and enhance interior daylighting.

Crystal project manager Rob Dorsky, a former RHFD volunteer firefighter, worked closely with members of the fire company's Building Committee to select the new windows, and customizing features, finishes, glass, and installation accessories for the expansive openings.

"It was a pleasure to work with the Roslyn Highlands Fire Department to design a new look for the

station, one that would greatly improve lighting, ventilation, and energy performance,” said Dorksy. “I was proud to select the best Crystal products and very pleased that leading fenestration firm Bluesky Windows provided the expert installation services.”

A critical part of the planning phase was to develop an installation schedule that would not interfere with the active fire house's operations. Crystal coordinated production and delivery of finished units with the fenestration installation company and RHFD members to minimize disruption, especially in critical operation areas of the buildings.

Most of the windows Crystal supplied for the project were its aluminum Series 5100 Fixed Windows in single, two- and three-lite combinations. This popular heavy commercial picture window features 3.25” frame depth with continuous head and sill, facilitating multiple lights and simplifying installation. The window has an outstanding AAMA rating of AW-PG100. The Series 5100 Fixed windows were combined in many openings with 14” tall Crystal two- and three-lite Series 5600 Sliding Windows along the bottom edge, providing easily accessible ventilation. This heavy commercial aluminum sliding window features 3.25” frame depth, stainless steel sash rollers, reinforced frame roller track, interlocking meeting rails, and an anti-drift clip lock pull rail. The window has an AAMA rating of AW-PG40 for the 2-lite and AW-PG50 for the 3-lite.

For a few select openings, Crystal supplied its aluminum Series 8500 Out-Swing Casement Window configured with its Series 8510 Fixed Window. These architectural windows feature 2.625” frame depth and are AAMA rated AW-PG100 and AW-PG85, respectively. The Series 8500 Casement has four-bar stainless steel hinges, multi-point locks, an elegant handle for effortless operation, and an opening limit device for added safety.

All products for the RHFD fire house were glazed with 1" tempered dual-pane insulating glass units with high performance Vitro low-E Solarban 70XL coating and Argon gas filling for superior energy efficiency. The frames were finished in AAMA 2604 white powder coat paint.

The project also included a new dramatic red aluminum frame glass main entrance with commercial double doors and multiple sidelights and transoms supplied by Gamco Corp. and custom painted by Architectural Coating, Inc. Bluesky Windows provided all window and door installation services for the RHFD renovation.

Crystal supplied complementary accessories including mullions, snap trim, and clips to facilitate installation. Several of the façade openings required field assembly of separate windows into multi-window configurations, which took advantage of the Series 5100 continuous head and sill frame feature and used matching H-mullions for stacking. The largest opening of 10' by 10' was comprised of four stacked three-panel fixed windows mounted atop a three-lite slider. For many of these large configurations, the fire house offered its ladder equipment to assist with installation from inside the station.

Founded in 1905, the Roslyn Highlands Fire Department is an all-volunteer, 115-member company serving 12 towns on Long Island with two fire stations and two rescue stations. The Warner Ave. fire station includes five fire truck and vehicle bays, a firefighter training room with simulators, dispatch and administrative offices, meeting rooms, locker and shower rooms, a gym, a full kitchen, and a large multi-purpose hospitality space.

Crystal Window & Door Systems is one of the top 30 manufacturers in North America of replacement and new construction vinyl and aluminum window and door products and high-end fenestration systems. Crystal offers a full product line, rapid order-to-delivery times, quality workmanship, innovative product features, outstanding value, and an experienced and knowledgeable staff. Headquartered in New York, the company operates a national network of factories, branches, subsidiaries and affiliates in California, Illinois, Missouri, Ohio, and Pennsylvania.

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