



Crystal Magnus Series 4500 uPVC commercial vinyl window achieves top fire performance rating

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Crystal Windows Magnus Series 4500 uPVC commercial vinyl window, tilt-and-turn model.

Queens, NY According to Crystal Window & Door Systems, its Magnus Series 4500 uPVC commercial vinyl window has been designated class A, the top category, for fire performance properties. Samples of the Crystal Magnus window were submitted to a certified independent test laboratory for testing according to ASTM E84-18b Standard Test Method for Surface Burning Characteristics of Building Materials and received the top tier results.

“Vinyl windows have been used in low-rise structures for many decades,” said Steven Yu, marketing manager for Crystal. “Now commercial reinforced vinyl is rapidly gaining popularity for higher-rise properties due to the great energy efficiency characteristics and strength. This testing confirms the superb fire performance qualities of our Magnus vinyl windows.” The recently introduced Crystal Magnus Series 4500 product line has achieved structural ratings up to AW-PG70 and thermal performance as low as 0.20 U-values.

The ASTM E84-18b standard procedure tests for how quickly a building material spreads a flame across its surface and how much smoke develops from the material in a fire situation. The test results yield a Flame Spread Index (FSI) and Smoke Developed Index (SDI), which translates to a designation under International Building Code (IBC) and National Fire Protection Association (NFPA) criteria as class A, B, or C.

Crystal’s Magnus Series 4500 uPVC window FSI and SDI test results place it in class A for its surface burn characteristics based on the IBC and NFPA 101:Life Safety Code and NFPA 5000:Building Construction and Safety Code.

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