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## **Crystal Windows launches Magnus Series 4500 Commercial vinyl product line**

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Boston, MA Crystal Window & Door Systems has released its new Magnus Series 4500 line of unplasticized polyvinyl chloride (uPVC) window and door products. The Magnus Series 4500 windows offer the best of both worlds: structural performance equal to top aluminum products while simultaneously providing the thermal performance of vinyl windows. The Magnus Series 4500 products combine European inspired design with strong durable uPVC fusion-welded frames and sashes. With thermal performance up to 45% more efficient than comparable thermally broken windows, these uPVC windows can play a lead role in buildings seeking to qualify for LEED or Passive House certifications.

The Crystal Magnus Series 4500 uPVC product line comes in a variety of window and door styles all based around tight compression sealing frame and sash technology. The flagship window of the Magnus line is the Series 4500 Tilt-and-Turn window. This energy-efficient vinyl window, like all the Magnus models, is especially suitable for large openings in multifamily, commercial, select high-rise, institutional, and residential properties. The Crystal Magnus Series 4500 achieves a balance of high commercial window structural ratings, great sound attenuation, and extraordinary thermal efficiency. The Crystal Magnus Tilt-and-Turn can span very tall or very wide openings while delivering with a single dual-action handle the functionality of three windows – an in-swing casement, a safe top-venting hopper, and a securely sealed picture when closed. With options, the window can achieve NAFS CW-PG70 ratings, STC sound attenuation levels up to 41db, and thermal U-values as low as 0.20.

In addition to the Tilt-and-Turn, Crystal Magnus Series 4500 product style variations include hopper, in-swing turn only, and fixed picture windows, as well as tilt-slide and single swing or dual-sash French doors. All of the Magnus Series 4500 products feature large 1-3/8" glazing pockets which accommodate double- or triple-pane insulated or monolithic glass.

Crystal's full range of low-E and other glass options, as well as argon filling and between-the-glass grids in several styles, are available with the Magnus Series 4500.

Other Magnus Series 4500 features include a choice of either 2-3/8" or 3-1/4" frame depths, multi-point locks, sash perimeter compression seals, top quality hardware, and substantial sash reinforcement chambers, important for large size or heavy commercial rated windows.

Available in three extruded colors – white, beige, and clay – the uPVC material's High-Definition Finish (HDF) outperforms standard vinyl to assure years of unparalleled service with minimal maintenance. Additional solid color and wood grain foil options are available. To facilitate new construction and retrofit installations in a variety of building types, optional nail fins and other accessories are available.

Magnus windows and doors are produced at several of the Crystal factories and are available nationwide through the Crystal sales and distribution network.

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