

MAGNUS

WINDOWS



190 BUILDER SERIES SYSTEM

CRYSTAL[®]
WINDOW & DOOR SYSTEMS, LTD.
WWW.CRYSTALWINDOWS.COM



About Crystal



Crystal Window & Door Systems is an award-winning national manufacturer of quality, energy efficient vinyl and aluminum windows, and high-end fenestration systems for residential, commercial and institutional buildings. With industry proven quality and state-of-the-art manufacturing, Crystal offers a wide array of fenestration solutions that include high performance systems for green and sustainable design.

Celebrating more than 30 years of operations, Crystal has grown from startup in 1990 to one of the top window manufacturers in the nation. Crystal products are distributed in more than 35 states and the extended Crystal family of companies includes not only fenestration manufacturing, but also aluminum extrusion.

Crystal and its subsidiaries operate more than 400,000 square ft of manufacturer space at four plants and employ over 400 people at its main factory, regional branches, subsidiaries, and affiliate firms. The main production facility and corporate headquarters are in Queens, NY. Additional Plants are in Chicago, IL; St. Louis, MO; and Riverside, CA. Branch offices are in Scranton, PA and Cleveland, OH.

Crystal Window & Door Systems is a proud long-term partner of REHAU, a global manufacturer of polymer-based solutions for construction, automotive and industry. Founded in Germany more than 70 years ago, REHAU is known for delivering high-performance window and door solutions, with uncompromising attention to detail from design to profile extrusion to service. REHAU offers a variety of styles from typical residential hung-slider, casement and patio door to the most advanced European-style tilt-turn windows that achieve the highest structural, thermal and acoustical performance ratings.



MAGNUS window designs are comprehensive providing styles with a variety of design and performance options. These versatile designs are an excellent choice for upscale residential and light commercial applications.

Available in white, beige or clay and can be laminated with solid color or wood-grain foils.

MAGNUS windows are designed to truly go beyond the standard performance requirements in both commercial and residential environments while offering distinct fenestration solutions for each.

Features

- Multichambered profiles for increased performance.
- Increase structural capacity and better stability.
- Greater versatility to meet higher performance standards.
- High-definition finish for weather and stain resistance.

A Wider Range of Styles

- Single Hung-Tilt
- Single Slider
- Fixed

Superior Profiles

MAGNUS windows resist fading and corrosion. The proprietary unplasticized polyvinyl chloride (uPVC) formulation and extrusion process result in superior profiles that outlast and outperform material like aluminum and wood. Plus, uPVC is a natural insulator. It resists heat loss in the winter and heat gain in the summer.

SIMPLE DESIGN & HIGH PERFORMANCE



UPVC FORMULATION

Formula includes above-average quantities of titanium dioxide stabilizers and impact modifiers to protect against fading from solar radiation.



FUSION-WELDED CORNERS

In addition to benefits of uPVC's thermal properties, fusion-welded corners greatly reduce leakage potential.



MULTICHAMBERED PROFILES

A sophisticated multichamber design accommodates steel reinforcement and allows for big window elements.



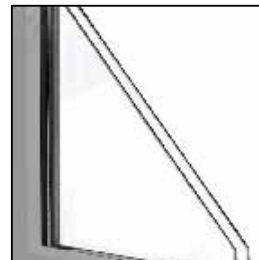
DRAINAGE SYSTEM

A hidden integral water drainage system allows rain water to drain from the window system to the building exterior without entering the building envelope.



HIGH-DEFINITION FINISH

Only occasional cleaning thanks to the ability to repel dirt and retain color with UV stability, is needed to keep the surfaces looking like new, even years after installation.

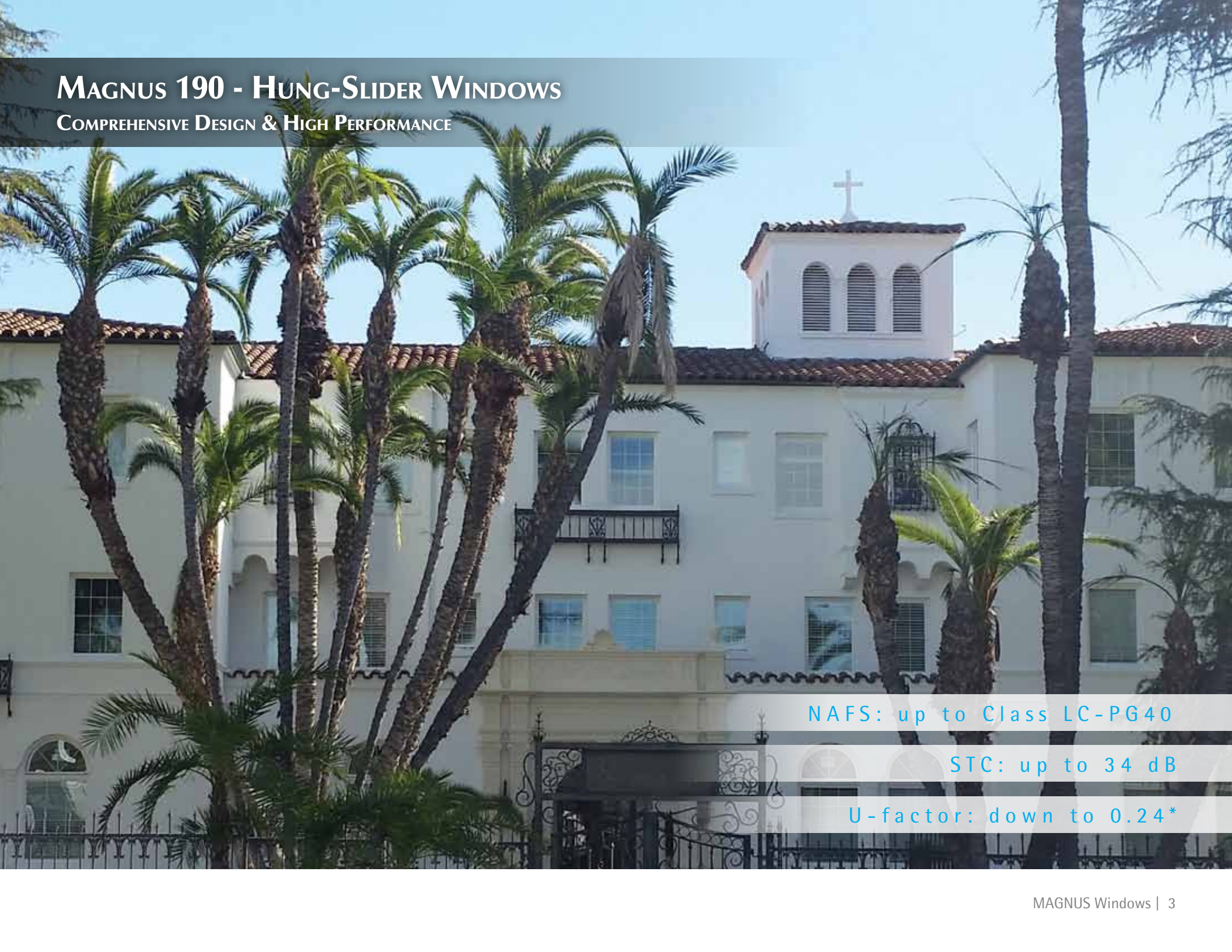


ENERGY EFFICIENT GLASS

Insulated glass units with a high-performance spacer system provide energy efficiency and options to increase acoustical and energy performance.

MAGNUS 190 - HUNG-SLIDER WINDOWS

COMPREHENSIVE DESIGN & HIGH PERFORMANCE



NAFS: up to Class LC-PG40

STC: up to 34 dB

U-factor: down to 0.24*

MAGNUS 190 - HUNG-SLIDER WINDOW

SIMPLE DESIGN & HIGH PERFORMANCE

The MAGNUS 190 Hung-Slider Windows combine simplicity with high performance. Energy efficient types and styles are available for large new construction and replacement projects.

Every builder window is custom made to your specifications using high-quality vinyl and high-performance glass. Magnus 90 Hung-Slider Windows are durable and stylish with features and options that make them ideal for projects that require simplicity.

Available in white, beige or clay and can be laminated with solid color or wood-grain foils.



AVAILABLE COLORS

- White
- Beige
- Clay



Features:

- Durability and longevity with unique uPVC formulation and high definition finish
- Multiple chambers for increased strength, energy performance and efficient water drainage.
- Energy-efficient insulated glass units with a high-performance spacer system.

MAGNUS 190 - HUNG-SLIDER WINDOWS

SIMPLE DESIGN & HIGH PERFORMANCE

Types

Single Hung-Tilt, Single Slider, Fixed

Frame Depth

2 11/16 in (68.6 mm)

Overall Glass

Up to 3/4in (19 mm)

U-values

Down to 0.25*

STC

Up to 34 dB

Structural Ratings

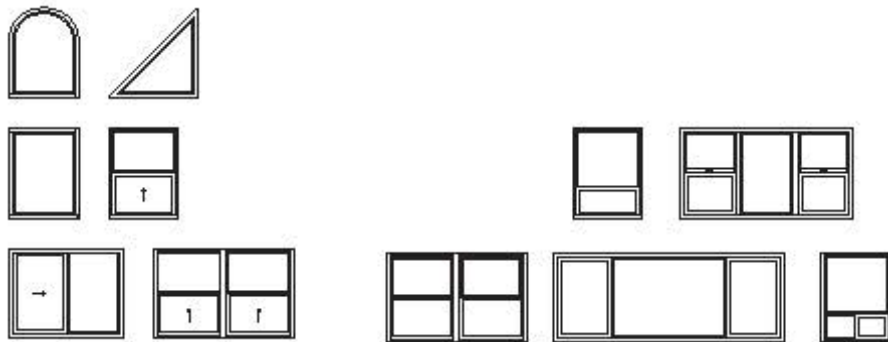
Single Hung-Tilt: LC-PG50

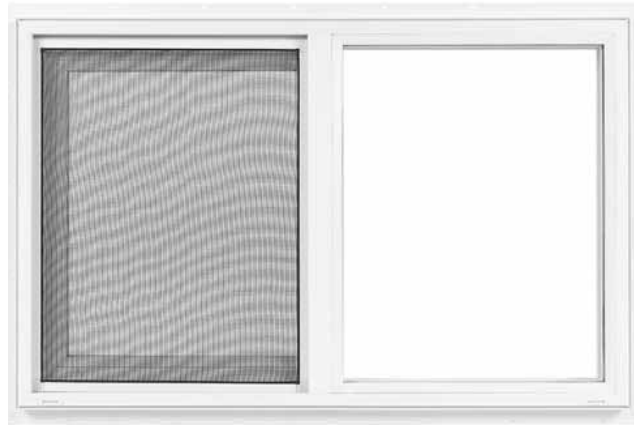
Single Slider: LC-PG35

Fixed: LC-PG45

* based on simulation

The **MAGNUS** System allows for a wide selection of window styles.





FEATURES & BENEFITS

Reinforcements for main profiles boost structural performance and element sizes
Up to 3/4 in (19 mm) glazing capability provide excellent acoustical and energy performance properties
Main profiles engineered with multiple chambers increase strength, energy performance, and allow efficient water drainage
2 11/16 in (68.6 mm) frame depth with accessory grooves provide flexibility for new construction and replacement applications
Internal slash glazing increases ease and safety of glass replacement (glass can be replaced from the inside)

AVAILABLE COLORS

- White
- Beige
- Clay



Crystal Window & Door Systems

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