



> Q u a l i t y
Performs



Entrances | Storefronts | Curtain Walls | Sun Controls | Windows | Balcony Doors



Quality
inspires®



For best-in-class thermal performance, specify



Seeking to save energy in the building envelope? The enerGfacade® name is all you need to know. The YKK AP® enerGfacade family of products provides ecologically sustainable and economically sensible solutions for the entire building envelope.

By including enerGfacade products in their plans, architects, builders and developers have new opportunities to reduce a building's total cost of ownership and earn LEED® certification credits. All products in the enerGfacade family incorporate energy-saving designs to greatly improve the insulation values over traditional systems.

Ask YKK AP to show you how enerGfacade products can make your next building project a model of energy-saving, environmentally intelligent design.

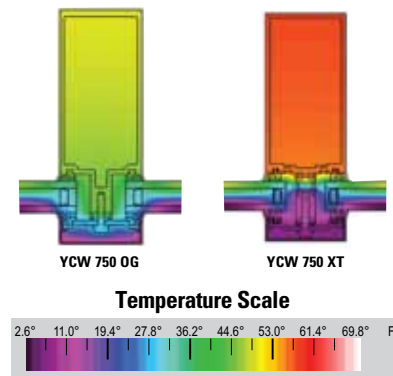
FIVE REASONS TO SPECIFY ENERGFACADE SYSTEMS

- 1.** All products in the enerGfacade family have energy-saving design features. Architects seeking LEED certification can enhance a project's energy conservation by specifying systems from YKK AP's enerGfacade family of products.
- 2.** All products in the family are designed to accept 1" insulating glass. These units can be enhanced with emissivity coatings, gas fills, and warm edge spacers to reach higher performance. Select systems with advanced glass units, such as triple glazing and suspended film, to reach superior levels of performance.
- 3.** The enerGfacade family of products is produced in the United States at our ISO 14001 environmentally certified manufacturing facility in Dublin, Georgia.
- 4.** Each enerGfacade product is made from aluminum, one of the most recyclable products used in manufacturing.
- 5.** All systems are produced with a minimum of 30% post-industrial recycled content onsite, unless otherwise specified, to reduce fossil fuel emissions and achieve sustainability goals.

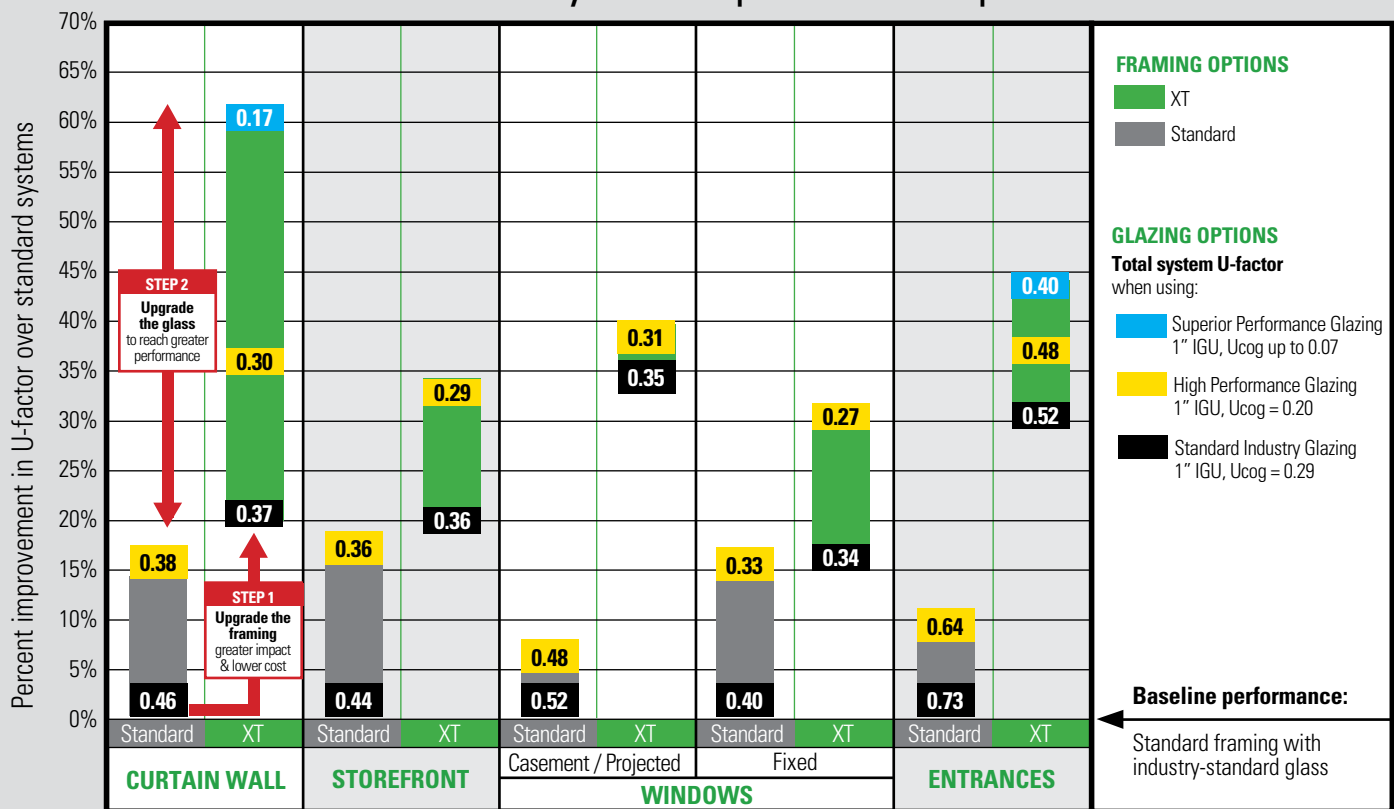
XT framing systems—the top performers in the enerGfacade family

For superior performance, take a close look at our XT product line—the most innovative products in the industry. “XT” in the product name is your assurance of best-in-class thermal performance. XT products are available for curtain wall, storefront, entrance and window systems.

Thermal Imaging. Frame temperature comparison based on 0°F exterior, and 70°F interior air temperature



How much can XT systems improve thermal performance?



Two steps to reduce heat transfer

The chart above shows the range of thermal performance improvements resulting from different configurations of curtain wall, storefronts, windows and entrances. Each vertical bar shows the range of performance improvements achievable with either a standard framing system or the XT framing system.

Gray bars represent the range of performance improvements available with standard framing systems. For example, standard curtain wall with standard glass (the “baseline system”) has a U-factor of 0.46. Using 1” high-performance glazing reduces the U-factor to 0.38, representing a 17.4% performance improvement.

Green bars represent the total range of performance improvements available with XT framing systems. Red callouts in the chart, using curtain wall systems as an example, highlight the most cost-effective ways to achieve performance improvements:

Step 1 in the chart—upgrading from standard framing with standard glass to XT framing with standard glass—achieves a 19.6% improvement in U-factor (from 0.46 to 0.37).

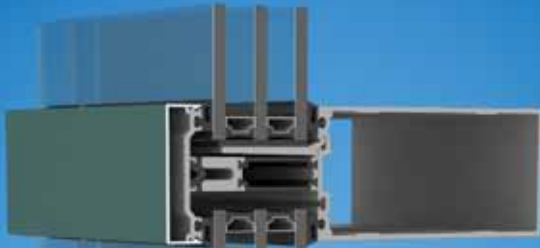
Step 2 shows the added improvements that can be realized with XT framing: Upgrading to 1” high-performance glazing improves XT’s performance by 34.8% over the baseline system (U-factors as low as 0.30); upgrading to superior glazing (suspended film and triple glazing) improves XT’s performance by 63.0% over the baseline system (U-factors as low as 0.17).

XT PRODUCTS FOR MAXIMUM ENERGY SAVINGS

ENERGY-SAVING CURTAIN WALL SYSTEM OFFERS MULTIPLE GLAZING OPTIONS

With overall U-factors as low as 0.17, YCW 750 XT curtain wall exceeds the most stringent green building codes and standards in the market today. Options include integral sill flashing and a break metal interface to extend flashing further from the building at the sill. This product uses MegaTherm® technology with structural polyamide struts (available in three widths) that accommodate the advanced glazing options shown here.

YCW 750 XT curtain wall system



TRIPLE INSULATED GLASS

Overall system U-factor:
0.28 to 0.22



SUSPENDED FILM GLAZING

Overall system U-factor:
0.26 to 0.17



STANDARD 1" GLAZING

Overall system U-factor:
0.37 to 0.30



STOREFRONT SYSTEM PROVIDES EXCELLENT STRUCTURAL INTEGRITY—AND SIGNIFICANTLY REDUCES HEAT TRANSFER

The YES 45 XT storefront system includes a dual thermal barrier design for outstanding thermal performance. In addition to its industry-leading sill flashing design, the system also features the MLP™ (mechanical lock profile) system, which completely encapsulates lanced retaining edges within a polyurethane thermal barrier. This storefront system's structural integrity enables longer vertical spans and horizontal spacings.

YES 45 XT storefront system



XT PRODUCTS FOR MAXIMUM ENERGY SAVINGS

GET SUPERIOR ENERGY PERFORMANCE FROM THESE ENTRANCES

MegaTherm® XT entrances are available in medium-stile (Model 35 XT) and wide-stile (Model 50 XT) configurations. Entrance frames and thresholds are thermally broken with polymers that separate the interior and exterior extrusions by more than 0.270 inches to reduce energy flow. To further improve thermal performance, the doors have dual perimeter air seals on all four sides. A wide selection of hardware options for hinges, locks, closers, mid-rails, and bottom rails are available.

MegaTherm XT entrance system



OPERABLE WINDOW SYSTEM DELIVERS HIGH-END THERMAL AND STRUCTURAL PERFORMANCE

The YOW 350 XT window system's superior thermal performance results from using YKK AP's MegaTherm® technology, plus uniquely designed interior and sash gaskets, to minimize energy convection. Thermal struts are constructed of polyamide 6/6 with glass fibers on all three axes. In addition, innovative frame designs minimize energy flow within the framing system itself. Triple hollow struts incorporate air baffles to break the convection of energy within the glazing pocket.

YOW 350 XT window system



The enerGfacade family includes these industry-acclaimed sun control systems

ThermaShade sunshade system



THERMASHADE® SUNSHADE

The ThermaShade® system is the industry's only sunshade system with a thermal barrier. The award-winning product is Cradle-to-Cradle® certified. When integrated with the curtain wall of a building, the ThermaShade system helps reduce solar heat gain and prevents thermal bridging of the curtain wall through its innovative anchor system, which includes a thermal barrier. This feature improves the energy efficiency of the building envelope without compromising the thermal performance of the curtain wall system. The ThermaShade system offers a wide spectrum of design and color options.

LUMINANCE® LIGHT SHELF

YKK AP's Luminance® light shelf enhances interior daylight and integrates into YKK AP standard curtain wall and window wall products. Highly reflective melamine surfaces of the modular light shelf panels yield a penetrating, diffuse light deeper into the interior. Luminance enhances the indoor environment while reducing energy use of lighting. Modular components simplify installation and replacement. A 90-degree drop-down feature enables easy cleaning of the light shelf and glazing above it. Recognized as a Top 100 Product by Buildings Magazine, Luminance light shelves can be combined with YKK AP's ThermaShade sunshades to give architects a complete sun control solution and opportunities for LEED certification credits.

Luminance light shelf system



Other enerGfacade products

CURTAIN WALL

YCU 750 TU

- A dry-glazed, unitized system designed for high-rise applications
- Unitized design enables fast installation and excellent long-term performance
- Drop-on adjustable slab and slab edge anchors for rapid job-site dry-in with reduced field labor
- Patented screw spline technology
- Three-point anchor adjustments

WINDOW WALL

YWW 45 TU

- Window wall system for multi-story buildings
- ThermaBond Plus® thermal barrier
- Interior or exterior glazing
- Screw spline or shear block construction
- Optional structural, silicone-glazed intermediate vertical
- Optional strap and roll-over anchors available for precast conditions

YWW 50 T

- Front loaded system for insulating glass with a slab edge cover option.
- Front-set glass to improve thermal performance
- Interior or external glazing
- Install with head and sill members running continuously or cut in between the vertical
- Slab edge cover option
- MegaTherm® thermal barrier
- 1" infill
- Compatible with entrance systems
- Screw spline fabrication and assembly

WINDOWS

YFW 400 TU

- Optimizes energy performance as well as day-lighting and views to the outdoor environment
- Versatility to meet the many design challenges of remodeling, retrofitting, and new construction
- Can be integrated into smaller storefront and window wall punched opening applications
- 4" frame depth
- 1" insulating glazing or insulating panels
- ThermaBond Plus® thermal barrier
- Tilt-in sash for easy cleaning
- Single or double hung configurations

YVS 400 TU

- 4" frame depth
- Optional SecurSweep sweep locks and SafSupport tilt support arms
- ThermaBond Plus® thermal barrier
- Tilt-in sash for easy cleaning
- Single or double hung configurations
- Factory glazing and screens
- Complete accessory package
- Full selection of block and tackle, spiral, and Class 5 Ultra-Lift balances

YVS 410 TU

- Designed to provide a high level of security and dependability for both new construction and renovation projects
- Large and small missile tested
- Optional SecurSweep sweep locks incorporate a special security latch to prevent tampering
- 4" frame depth
- Integrates with the YFW 400 TU Fixed Window
- Full selection of quality block and tackle, spiral, and Class 5 Ultra-Lift® balances
- 1/4" or 1" (impact) glazing
- Complete accessory package
- ThermaBond Plus® thermal barrier

BALCONY DOORS

YSD 600 T

- Architectural sliding door for insulating glass
- Designed for energy efficiency and occupant comfort
- 6" frame depth
- Enhanced structural capabilities without the need to add reinforcing
- Heavy-duty hardware and stainless steel tandem for worry-free operation
- Accepts standard tempered 1" thick insulating units
- MegaTherm® thermal barrier
- Factory glazing and screens

YTD 350 T

- High-performance, architectural-grade terrace door
- Complete design flexibility to integrate with adjacent building materials
- Doors shipped completely fabricated
- Multi-point locking system
- MegaTherm® thermal barrier
- 3-1/2" or 4-1/2" frame depths

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Specify YKK AP's
XT systems to
design low-energy,
sustainable buildings

Visit ykkap.com to learn more

For more information about YKK AP's enerGfacade family of products for architects and glazers, please contact your regional sales branch or YKK AP headquarters at:



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