

35XT & 50XT Doors

MegaTherm® Advanced Thermal Commercial Swing Doors

enerGfacade®



Energy Saving Entrance System

Architects seeking LEED certification can enhance a project's energy conservation by specifying YKK AP's high-performance MegaTherm® XT thermal entrances. A Model 35XT Entrance has a U-factor of 0.52 ($U_{\text{cog}} = 0.29$). Testing has also been conducted with advanced glazing to achieve a U-factor of 0.44, proving exceptional performance for an architectural aluminum entrance.

To save energy, all aspects of the doors are thermally broken by YKK AP's MegaTherm® polymer, which separates the interior and exterior extrusions by more than 0.270 inches to reduce energy flow. Thermal entrances feature foam polymer inserts and dual perimeter air seals for superior performance over standard entrances.

Product Options & Features

- 3-1/2" Medium Stile & 5" Wide Stile
- Wide selection of hardware for hinges, locks, closers, mid-rails and bottom rails
- Mechanically joined/welded door corners
- Accepts 1" standard IGU as well as advanced 1-3/8" suspended film glazing



**YKK
ap**

Quality
inspires®



35XT & 50XT

SYSTEM SPECIFICATIONS

System Style	Glazing & Config	Glass	Air Infiltration (Single Acting Butt Hinges or Offset Pivots)	Structural Uniform Load	Structural Performance
3-1/2" Medium 5" Wide	Outside & Center	1" IGU with Low-E (C.O.G. U-factor: 0.29)	Single Doors: 0.50 CFM/FT ² Paired Doors: 1.00 CFM/FT ² @ 6.24 PSF (299 Pa)	35XT Door: 45 psf 50XT Door: 65 psf	Door corner structural strength shall be tested per YKK AP's dual moment test procedure and certified by an independent testing lab to ensure corner integrity and weld compliance. Certified test procedures and results are available upon request.
Testing Standards			ASTM E 283	ASTM E 330	ASTM E 330

Available Finishes

Factory Anodized (AAMA 612) and Organic Paints (AAMA 2604 & AAMA 2605)

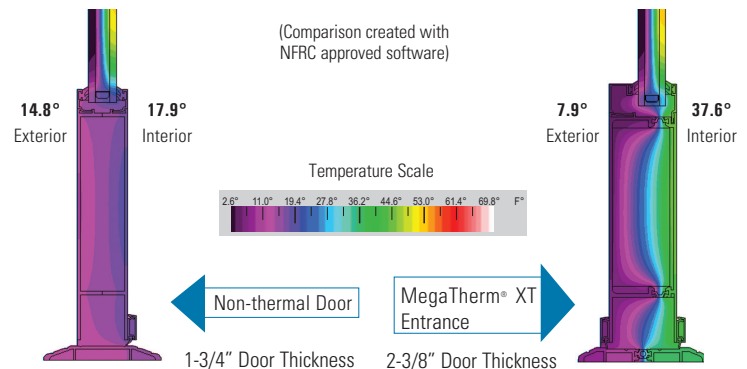
Standard Entrances

- Singles: 3'-0" x 7'-0"
- Pairs: 6'-0" x 7'-0"
- Offset Pivot, Butt Hung and Continuous Hinge
- MS Lock, Rim and CVR Exit Device

Custom Entrances

- Singles: 4'-0" x 8'-0"
- Pairs: 8'-0" x 8'-0"
- Standard and Custom Hardware

THERMAL IMAGING

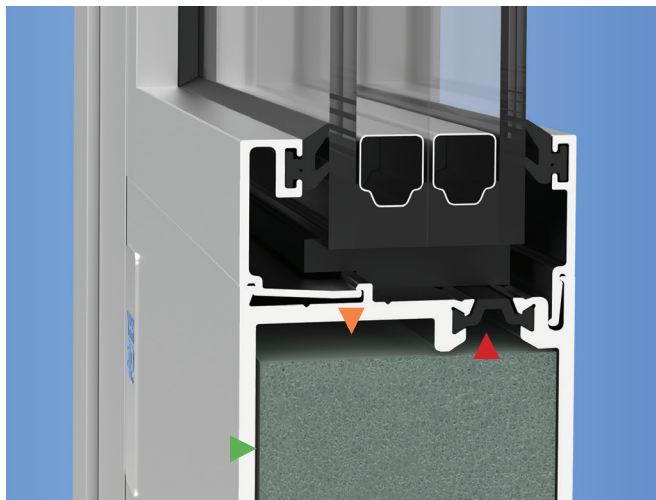
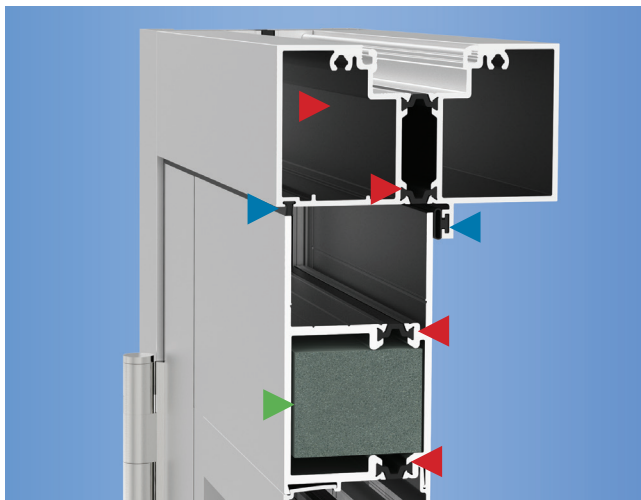


Dual Perimeter Air Seal - Tested and reported thermal performance can be easily degraded in use by excessive air infiltration. Adding a second perimeter air seal on all four sides improves thermal performance. Most competitive doors do not have this feature.

Foamed Polymer Inserts - Inserts in all rails for additional insulation to improve u-Factor, CRF and Sound Deadening

Thermally Broken Threshold - The thermally broken threshold amplifies the benefits of dual applied door sweep air seals.

Ultra Performance - Constructed of polyamide 6/6 with glass fibers on all three axes, MegaTherm® technology delivers high end thermal, structural, and durability performance. Its composition delivers a highly effective thermal barrier that is 500 times more efficient. Since exterior components can be finished before assembly, dual finishes can be used to meet design requirements.



Additional information including CAD details, CSI specifications, Test Reports, Fenestration Product Rating Certificates and Installation instructions are available online at: www.ykkap.com/commercial/product/entrances/megatherm-xt-entrances/