THERMALLY BROKEN PERFORMANCE WITH THE AESTHETIC THAT’S UNIQUE ONLY TO STEEL

Whether it’s updating a landmark building or pushing the envelope of size or structure in an architecturally designed modern residence, the combination of glazing flexibility and energy performance with narrow thermally broken steel is a unique combination of performance and appearance.

The Dynamic thermally broken steel lift & slide door is the perfect complement to any project when performance matters and the nuanced look of steel is integral to the design aesthetic.

The glass fiber-reinforced composite thermal break provides exceptional strength and stability while providing superior thermal performance with a wide array of dual & triple glazing combinations. The European lift and slide hardware and the ball bearing wheel systems makes sliding the heavy steel panels almost effortless.
# THERMALLY BROKEN STEEL

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www.dynamicwindows.com
WHY CHOOSE DYNAMIC STEEL?

Over the last 20 years Dynamic Architectural Windows & Doors has manufactured custom windows and doors for hundreds of the finest architecturally designed luxury homes and historical restorations in North America. It was only after repeated requests from our best architect and builder customers that Dynamic made the decision to add steel windows and doors to the manufacturing line up. Our customers provided us with a detailed wish list of what was needed in the steel window industry in North America.

Their steel wish list included the following:

- Narrow profiles that would meet the aesthetic design criteria of both the luxury residential and historical replacements markets.
- Thermally broken frames and sash that would reduce the potential for room-side condensation (a repetitive problem with conventional non-thermally broken steel windows).
- Window and door designs that accommodate a wide range of double and triple glazed options, to meet each unique project requirement in sizes that exceeded the industry standards.
- Third party tested window designs that meet the evolving energy codes, complete with NFRC and AAMA testing.
- Optional third party structural engineering services to provide an extra level of confidence in project specific design performance.
- An industry leading business model with dependable & accurate lead time estimates, concise communication, timely turnaround of shop drawings and clearly defined expectations in all aspects of the window designing and manufacturing process. Dynamic is known for the ability to meet the expectations of this demanding niche.

DYNAMIC STEEL GLAZING FLEXIBILITY

Narrow sightlines, exceptional strength and durability have long been the attractive design components of using steel windows & doors, but these attributes have been often overshadowed by the potential of condensation and poor thermal efficiency.

Dynamic Steel introduces a unique solution to these design concerns with thermally broken frame & sash components coupled with highly flexible glazing capabilities.

The glazing flexibility is an important component of a steel window or doors overall performance. The oversized glazing cavity of the Dynamic Steel thermally broken frame & sash facilitates glass thicknesses up to 1 3/4 inches.

HIGH PERFORMANCE DUAL OR TRIPLE INSULATING GLASS

The 1 3/4” overall glazing cavity accommodates an array of high performance glass types, thicknesses and spacer bar material combinations. Whether it's thermal performance, sound abatement, security or a combination of performance objectives the flexibility is available to meet the most stringent performance specifications.
DYNAMIC STEEL LIFT & SLIDE DOORS

GRAND ENTRANCES HAVE NEVER BEEN THIS EASY

When the view is phenomenal, the location breathtaking, the challenge of transforming the magic of the outdoors to the indoors is made easier with Dynamic’s selection of thermally broken steel lift & slide doors.

Oversized lift & slide doors steel sliding doors in a combination of dramatic moving glass wall designs.

Maximize glass areas with environmentally friendly materials, energy saving glass, high performance hardware, and a variety of sliding configurations. Tested for a range of performance requirements, the Dynamic Steel lift & slide can complement any genre of design.

Dynamic Steel lift & slide doors couple design flexibility, narrow profiles, engineering and independent laboratory testing with the strength of steel. The architect can have confidence in choosing Dynamic Steel, secure in the knowledge that the design details are proven to perform to established test criteria. Dynamic eliminates performance liabilities through independent, verifiable laboratory testing and uses this expertise to protect our clients and their investment by identifying potential engineering issues and resolving them before the door system is built.

OVERVIEW:

Available in multiple configurations (see page 7)
Dual or triple glazing options available
Maximum panel height: 126”
Maximum panel width: 168”
Maximum panel weight: 880 lbs with standard carriage / 1320lbs with dual carriage
Stile & Rail profile face: 3 11/16”
Stile & Rail profile depth: 3 1/8”
Thermally broken glass reinforced composite threshold
NFRC rated and approved
Sliding screen doors available

FEATURES & BENEFITS:

- True thermally broken frames and sash
- Narrow sight lines
- Energy efficient performance
- Significantly reduces the potential of interior condensation and frost
- Deeper glazing pockets allow for thicker glazing combinations & improved U values
- State of the art architectural powder coat application
- Swiss design – fabricated, tested and rated in North America

Dynamic’s thermally broken steel lift & slide door system is the perfect complement to our narrow sight line Steel-Arte windows and swing doors. As a fully tested and engineered system, our steel lift & slide door can be installed with confidence in the most demanding environments. Manufactured in North America exclusively by Dynamic.

Supported by Dynamic’s technology driven business model and clear, concise and timely communication systems, the thermally broken Dynamic Steel Lift & Slide offers the optimal combination of architectural detailing, engineered performance and reliable delivery.

For more info on Dynamic thermally broken steel windows and doors, contact Dynamic sales at 1-800-661-8111 or visit www.dynamicwindows.com.
DOOR ELEVATIONS

DYNAMIC STEEL LIFT & SLIDE DOORS

MAX. PANEL HEIGHT: 126”
MAX. PANEL WIDTH: 168”

SECTIONAL DETAILS TO FOLLOW. THESE ARE THE STANDARD DETAILS. FOR ADDITIONAL DESIGN FLEXIBILITY QUESTIONS CALL THE DYNAMIC SALES TEAM AT 1.800.661.8111 OR EMAIL SALES@DYNAMICWINDOWS.COM
LIFT & SLIDE DOOR

MAX. PANEL HEIGHT: 126"
MAX. PANEL WIDTH: 168"

HEAD DETAILS

SILL DETAILS
**LIFT & SLIDE DOOR**

MAX. PANEL HEIGHT: 126"
MAX. PANEL WIDTH: 168"

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**INTERLOCK DETAILS**

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**MEETING PANEL DETAILS**
HISTORIC AUTHENTICITY WITH LEAD GLASS OVERLAY

The use of applied lead or zinc overlays is a proven technique for replicating the appearance of true leaded glass without the expense and performance issues associated with traditional metal caming or leaded glass.

Dynamic takes Lead Glass Overlay to a higher level by applying the lead or zinc to the exterior and room side of the insulating glass and includes a metal spacer between the two insulating glass surfaces. The internal grid appearance is authentic and when coupled with warm edge spacer bars, argon gas, and a variety of low E coatings; the final performance will meet any of today’s stringent energy codes.

Available in a selection of widths and patina colors, the use of Lead or Zinc Glass Overlay with an internal grid is an excellent solution for both historical replacements or luxury residential homes where a narrow muntin is important.

NFRC CERTIFIED GLAZING PERFORMANCE

Dynamic Steel is one of the few steel windows & doors on the market today that are tested and certified to the NFRC (National Fenestration Rating Council) performance standards. In many areas of the country the state and local building codes are requiring verifiable glazing performance using the NFRC certified labels on each product.

The Dynamic Steel Lift & Slide Door system is currently undergoing the NFRC certification process.

AAMA & ASTM TESTING: PROVEN WINDOW & DOOR PERFORMANCE

In addition to the complete range of European performance testing completed by our Swiss partner at the time of initial design, Dynamic Steel windows and doors have also independently lab tested for Air, Water, and Structural performance using the recognized North American standard AAMA / WDMA / CSA / 101 / IS2 / A440.
LIFT & SLIDE DOOR HARDWARE OPTIONS

**DIRIGENT HANDLE**

- ALUMINUM, COLORLESS ANODIZED, INCLUDING SPINDLE 3/8"
- HEIGHT: 9 15/16"
- DEPTH: 2 11/16"

**FLUSH PULL**

- STAINLESS STEEL, POLISHED
- HEIGHT: 4 1/16"
- DEPTH: 11/16"