ARCHITECTURE IN STEEL
Whether it’s the conversion of an industrial warehouse, a landmark building in a historic district or a tightly controlled University specification the combination of glazing flexibility, energy performance and narrow thermally broken profiles is a unique combination.

The profile face features widths from 1” to 1 9/16”. The new cold rolled steel in combination with the glass fibre-reinforced high performance composite thermal-break results in minimal heat loss with superior strength and stability when compared to traditional hot rolled profiles. The 2 3/8ths inch deep frame accommodates a wide range of glass specification flexibility without the need of special setup costs or profiles. Whether it is triple glazed, double glazed or combinations of thicker laminated glass & high performance glasses, the flexibility is unique in the steel window industry.

Steel-Arte is also a superior solution for luxury residential applications. The strength of the Steel-Arte coupled with the narrow profile design is a natural for window walls where the mullions are small and the minimal glass to glass dimension are critical to the clean, crisp geometric look of the aesthetic.

THERMALLY-BROKEN PERFORMANCE WITH NARROW SIGHT LINES
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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.
- Third party tested window designs that meet the evolving energy codes, complete with NFRC and AMMA 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.

STEEL-ARTE GLAZING FLEXIBILITY

Narrow sightlines, superior strength and unmatched 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-Arte introduces a unique solution to these design concerns with thermally broken frame & sash components coupled with unmatched glazing flexibility.

The glazing flexibility is an important component of a steel window or doors overall performance. The oversized glazing cavity of the Steel-Arte thermally broken frame & sash allows 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 unlimited combination of high performance glass types, thicknesses and spacer bar materials. 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.
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-Arte 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.

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-Arte 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.
WINDOW ELEVATIONS

Venting or fixed configurations

Inswing Casement
Outswing Casement
Outswing French Casement

Inswing French Casement
Outswing Awning
Outswing Awning in Window Wall

Direct Glazed
Inswing Hopper

SECTIONAL DETAILS FOR EACH DESIGN IS INCLUDED IN THIS OVERVIEW. THESE ARE THE STANDARD DETAILS. FOR ADDITIONAL DESIGN FLEXIBILITY QUESTIONS CALL THE DYNAMIC SALES TEAM AT 1.800.661.8111.
OUTSWING CASEMENT
MAX. VENTING DIMENSIONS: 31 1/2" X 63"
CONFIGURATION: VENTING OR FIXED

1. HEAD DETAILS

2. SILL DETAILS

3. JAMB DETAILS
OUTSWING FRENCH CASEMENT
MAX. DIMENSIONS: 63" X 63"

L PROFILE
Z PROFILE
H PROFILE

MEETING STILE DETAILS

www.dynamicwindows.com
OUTSWING AWNING
MAX. DIMENSIONS: 63" x 31 1/2"

1. HEAD DETAILS

2. SILL DETAILS

3. JAMB DETAILS

www.dynamicwindows.com
OUTSWING AWNING IN WINDOW WALL

MAX. DIMENSIONS (AWNING): 63" x 31 1/2"

L PROFILE  Z PROFILE  H PROFILE

1. AWNING HEAD DETAIL

2. AWNING SILL DETAIL

3. AWNING JAMB DETAIL

www.dynamicwindows.com
OUTSWING AWNING IN WINDOW WALL

MAX. DIMENSIONS (AWNING): 63" x 31 1/2"

L PROFILE
Z PROFILE
H PROFILE

OUTSIDE JAMB DETAILS

www.dynamicwindows.com
INSWING CASEMENT

MAX. VENTING DIMENSIONS: 31 1/2" X 63"

CONFIGURATION: VENTING OR FIXED

HEAD DETAILS

SILL DETAILS

JAMB DETAILS
INSWING FRENCH CASEMENT
MAX. DIMENSIONS: 63" X 63"

HEAD DETAILS

SILL DETAILS

JAMB DETAILS
INSWING FRENCH CASEMENT
MAX. DIMENSIONS: 63" X 63"

L PROFILE
Z PROFILE
H PROFILE

MEETING STILE DETAILS
INSWING HOPPER
MAX. DIMENSIONS: 63" X 31 1/2"

L PROFILE

Z PROFILE

H PROFILE

HEAD DETAILS

SILL DETAILS

JAMB DETAILS
STEEL-ARTE DOOR SERIES

MAX. DOOR HEIGHT: 108"
MAX. DOOR WIDTH: 36" (PER SLAB)

INSWING STEEL-ARTE DOOR
INSWING STEEL-ARTE DOUBLE DOOR
OUTSWING STEEL-ARTE DOOR
OUTSWING STEEL-ARTE DOUBLE DOOR

STILE & RAIL DOOR SERIES

MAX. DOOR HEIGHT: 120"
MAX. DOOR WIDTH: 48" (PER SLAB)

INSWING STILE & RAIL DOOR
INSWING STILE & RAIL DOUBLE DOOR
OUTSWING STILE & RAIL DOOR
OUTSWING STILE & RAIL DOUBLE DOOR
OUTSWING STEEL-ARTE DOOR

MAX. DOOR HEIGHT: 108"
MAX. DOOR WIDTH: 36"

1. HEAD DETAILS

2. SILL DETAILS

3. JAMB DETAILS
OUTSWING STEEL-ARTE DOUBLE DOOR

MAX. DOOR HEIGHT: 108"
MAX. DOOR WIDTH: 36" (PER SLAB)

1. HEAD DETAILS

2. SILL DETAILS

3. JAMB DETAILS
OUTSWING STILE & RAIL DOUBLE DOOR

MAX. DOOR HEIGHT: 120"
MAX. DOOR WIDTH: 48" (PER SLAB)

1. HEAD DETAILS

2. SILL DETAILS

3. JAMB DETAILS

THRESHOLDS AVAILABLE IN ALUMINUM, BRONZE OR ASSORTED HARDWOODS

MEDIUM EXPOSURE THRESHOLD

CHECK VALVE FOR DRAINAGE UNDER POSITIVE PRESSURE
OUTSWING STILE & RAIL DOUBLE DOOR
MAX. DOOR HEIGHT: 120"
MAX. DOOR WIDTH: 48" (PER SLAB)

LOCKSET DETAILS
INSWING STEEL-ARTE DOOR
MAX. DOOR HEIGHT:  108"  
MAX. DOOR WIDTH:  36"

1  HEAD DETAILS

2  SILL DETAILS

3  JAMB DETAILS

SADDLE SECURED TO FLOOR  
SILL WITH DROP DOWN SWEEP

www.dynamicwindows.com
INSWING STEEL-ARTE DOUBLE DOOR

MAX. DOOR HEIGHT:  108”
MAX. DOOR WIDTH:  36” (PER SLAB)

1. HEAD DETAILS

2. SILL DETAILS

SADDLE SECURED TO FLOOR
SILL WITH DROP DOWN SWEEP

3. JAMB DETAILS

www.dynamicwindows.com
INSWING STILE & RAIL DOOR
MAX. DOOR HEIGHT: 120"
MAX. DOOR WIDTH: 50"

1. HEAD DETAILS

2. SILL DETAILS

3. JAMB DETAILS

THRESHOLDS AVAILABLE IN ALUMINUM, BRONZE OR ASSORTED HARDWOODS

MEDIUM EXPOSURE THRESHOLD
INSWING STILE & RAIL DOUBLE DOOR

MAX. DOOR HEIGHT: 120"
MAX. DOOR WIDTH: 48" (PER SLAB)

1. HEAD DETAILS

2. SILL DETAILS

3. JAMB DETAILS

THRESHOLDS AVAILABLE IN ALUMINUM, BRONZE OR ASSORTED HARDWOODS

MEDIUM EXPOSURE THRESHOLD
INSWING STILE & RAIL DOUBLE DOOR
MAX. DOOR HEIGHT: 120”
MAX. DOOR WIDTH: 48” (PER SLAB)
For over 20 years Dynamic Architectural Windows & Doors has worked closely with landmark associations and numerous historic preservation authorities to develop unique solutions for historically significant buildings across North America.

With the introduction of the Steel-Arte line of products that commitment continues with the new Traditional Casement Profile. This traditional profile delivers the same tested performance and thermally-broken benefits of the other Steel-Arte designs and adds the exterior shadow lines of the historic putty profiles of yesterday.
MULLION REINFORCEMENT OPTIONS
FACTORY-APPLIED, LASER WELDED

1. Laser welded "L" profile
2. Mechanical fastened "L" profile
3. Variations
4. Variations
5. Variations
6. Variations
7. Variations
8. Variations
9. Variations
RADIUS PROFILES

- Frame Only
- Inswing Designs
- Outswing Designs

<table>
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<tr>
<th>R</th>
<th>Minimum radius</th>
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<tbody>
<tr>
<td>L Profile</td>
<td>16”</td>
<td>H Profile</td>
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<tr>
<td>Z Profile</td>
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* NOTE: MINIMUM RADIUS IS THE SAME ON THE "L", "Z" AND "H" THERMALLY BROKEN PROFILES
DRIP CAP OPTIONS

L PROFILE

Z PROFILE

H PROFILE

DRIP CAPS ARE OPTIONAL ON OUTSWING PROFILES

DRIP CAPS ARE REQUIRED ON INSWING PROFILES
WINDOW HARDWARE OPTIONS

TYPE 1 HANDLE - STEEL-ARTE TRADITIONAL CAM HANDLE

TYPE 2 HANDLE - STEEL-ARTE CONTEMPORARY CAM HANDLE
WINDOW HARDWARE OPTIONS

TYPE 3 HANDLE - STEEL-ARTE EURO CAM HANDLE
WINDOW HARDWARE OPTIONS

CASEMENT HINGE OPTIONS

STEEL-ARTE CASEMENT WELDED HINGE

STEEL-ARTE CASEMENT SCREW-ON HINGE

STEEL-ARTE CASEMENT EXTENDED HINGE
ALUMINUM GLAZING STOP OPTIONS

TYPE S1

TYPE S2

TYPE S3

TYPE S4

1/8” 9/16” 9/16”

1/8” 13/16” 9/16”

1/8” 1/8” 9/16”

1/8” 1/8” 9/16”

1 3/16”

1 3/16”

1 3/16”
STEEL GLAZING STOP OPTION

“L” STOP

REGLETS WITH DIFFERENT CONTOURS & GLASS THICKNESSES

Steel-Arte “L” glass stop creates interesting reglets & contours for a unique contemporary or industrial appearance.
S1 GLAZING STOP DETAILS
OUTSWING WINDOW WALL

2

3

4

5

5/32" 5/32"
3/8" 3/8"
9/16" 9/16"
1 9/16"

3/8" 5/32"

9/16" 3/8" 9/16"
13/16" 9/16" 3/8" 9/16"
2 3/8"

5/32" 5/32"
3/8" 3/8"
9/16" 13/16" 9/16"
13/16" 9/16" 3/8" 9/16"
2 3/8"
S1 GLAZING STOP DETAILS
OUTSWING WINDOW WALL

6

7
S1 GLAZING STOP DETAILS
INSWING WINDOW WALL

1 - H FRAME PROFILE

1 - L FRAME PROFILE
S1 GLAZING STOP DETAILS
INSWING WINDOW WALL

1 - T FRAME PROFILE

2 - H FRAME PROFILE

3 - T FRAME WITH SASH

4
S1 GLAZING STOP DETAILS
INSWING WINDOW WALL

Diagram showcasing dimensions and details for S1 glazing stop in an inswing window wall setup.
S1 GLAZING STOP DETAILS

INSWING CASEMENT
S1 GLAZING STOP DETAILS
OUTSWING CASEMENT

C - C

D - D
S1 GLAZING STOP DETAILS
OUTSWING AWNING

A - A

B - B
S1 GLAZING STOP DETAILS
OUTSWING AWNING
S3 GLAZING STOP DETAILS
OUTSWING WINDOW WALL

1 - H FRAME PROFILE

1 - L FRAME PROFILE
S3 GLAZING STOP DETAILS
OUTSWING WINDOW WALL

2

\[
\begin{align*}
5/32'' & \quad 5/32'' \\
9/16'' & \quad 3/8'' & \quad 9/16'' & \quad 1 9/16''
\end{align*}
\]

3

\[
\begin{align*}
3/8'' & \quad 5/32'' \\
13/16'' & \quad 9/16'' & \quad 3/8'' & \quad 9/16'' & \quad 2 3/8''
\end{align*}
\]

4

\[
\begin{align*}
5/32'' & \quad 3/8'' & \quad 5/32'' \\
13/16'' & \quad 9/16'' & \quad 3/8'' & \quad 9/16'' & \quad 2 3/8''
\end{align*}
\]

5

\[
\begin{align*}
5/32'' & \quad 3/8'' & \quad 5/32'' \\
13/16'' & \quad 45/64'' & \quad 7/64'' & \quad 9/16'' & \quad 2 3/8''
\end{align*}
\]
S3 GLAZING STOP DETAILS
INSWING WINDOW WALL

1 - H FRAME PROFILE

1 - L FRAME PROFILE
S3 GLAZING STOP DETAILS

INSWING WINDOW WALL
L GLAZING STOP DETAILS
OUTSWING WINDOW WALL

1 - H FRAME PROFILE

1 - L FRAME PROFILE
L GLAZING STOP DETAILS
OUTSWING WINDOW WALL

2

3

4

5

5/32" 3/8" 9/16" 1 9/16"

9/16" 3/8" 9/16" 13/16"


L GLAZING STOP DETAILS
OUTSWING WINDOW WALL
L GLAZING STOP DETAILS
INSWING WINDOW WALL

1 - H FRAME PROFILE

1 - L FRAME PROFILE

www.dynamicwindows.com
L GLAZING STOP DETAILS
INSWING WINDOW WALL

1 - T FRAME PROFILE

2 - H FRAME PROFILE

3 - T FRAME WITH SASH

4
L GLAZING STOP DETAILS
INSWING WINDOW WALL

5

6
L GLAZING STOP DETAILS
INSWING CASEMENT

A - A

B - B

C

D

www.dynamicwindows.com
L GLAZING STOP DETAILS
INSWING CASEMENT

C - C

D - D
TYPICAL INSTALLATION DETAILS

DIRECT GLAZED MULLION

DIRECT GLAZED CORNER MULLING OPTIONS

DISCLAIMER: THESE INSTRUCTIONS AND METHODS MAY NOT BE APPROPRIATE FOR A SPECIFIC INSTALLATION DUE TO DESIGN OF THE BUILDING, CONSTRUCTION METHODS USED, BUILDING CONDITIONS OR SITE CONDITIONS, ANY OF WHICH MAY REQUIRE DIFFERENT METHODS OR PROCEDURES. THE ARCHITECT, BUILDING ENVELOPE SPECIALIST OR INSTALLATION CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE INSTALLATION METHOD AND PROCEDURE FOR PROJECT SPECIFIC INSTALLATIONS. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
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