Slender lines and minimal profiles give a lightness to our Thermal Steel Windows and Doors, creating a minimalist aesthetic and powerful architectural appeal.

The design places emphasis on what matters most — clean, unencumbered style.

By coupling style with steel’s robust durability, our Thermal Steel Windows and Doors make a statement that will last a lifetime while outliving the latest trends.
Arcadia Custom is part of The Arcadia Group, a leading single source supplier of architectural fenestration products, fabricated from Steel, Aluminum, and Wood. Arcadia’s passion developed over 80 years ago with the desire to provide the Design community with unique window and door solutions. Our product quality and innovation are driven by the collaborative relationships we have forged with leading architects, designers, and builders.

Many of today’s architectural designs incorporate a mix of materials and styles when it comes to windows and doors. Arcadia Custom is one of the few companies uniquely positioned to fulfill this “Complete Fenestrations” need. Whether it is a steel, aluminum, or wood window and door package, a custom entryway, finely crafted interior doors, or a combination of all; Arcadia Custom has the experience and capabilities to ensure your project is a success.
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Arcadia Custom’s Thermal Steel Technology was fueled by the need to produce a Steel Window and Door that would meet the ever increasingly stringent Energy Efficiency Building Codes of today and tomorrow, while not losing any of the “classic-timeless” aesthetics that Steel windows and Doors have become known for. Thermal Steel is a unique patented process utilizing modern materials and state-of-the-art computerized machinery that produces the most precise, energy efficient steel window and door on the market today.

1. Window and door parts are laser cut from 10 gauge plates of 304 Stainless Steel
   a. Computerized laser ensures a level of precision and squareness not available through traditional means of manufacturing
   b. Laser also cuts all hardware and screw holes, ensuring accurate locations
   c. Parts are cut from single plates of steel, there are no welds at the corners, ensuring a smooth seamless finished surface
   d. 304 Stainless steel ensures product will not rust

2. Thermal-break material, called GRP (Glass Reinforced Pultrusion), is a specially engineered structural thermal insulator that is cut and processed using CNC equipment

3. Stainless steel plates and GRP are bonded together through a structural bonding process, called “Thermal-Mechanical-Fusion” creating the finished frame, window sash, and door panel assemblies

4. High-performance insulated glass is installed in a controlled factory environment utilizing structural glazing techniques ensuring against water penetration

5. A fully welded decorative “glazing frame” is installed in one piece providing a clean, precise finish fit with no unsightly open glazing-joints seen with typical site installations
**iCORE FEATURES:**

- Stainless steel construction, composite core, and stainless or solid bronze hardware ensure “No rust ever”
- Thermal break design provides the most energy efficient Steel window and doors available
- Factory glazed glass, installed in controlled environment ensures product will be square and leaks won’t occur at the glass
- Laser cut stainless steel process eliminates welded corners, producing a seamless, smooth corner surface
- Welded 1-piece glazing frames create a clean, precise, finished look at the glazing-bead-joints that isn’t possible with onsite installations
- Glass installed from the factory and installation clips or nailing flange, make for a simpler and quicker installation process from traditional steel windows and doors

**iCORE SECTION DETAIL**

1. Warm Edge Technology – High Performance Insulated Glass Factory installed with structural glazing methods and materials
2. Welded Aluminum Glazing Frame Four designs available
3. 10-Gauge Laser-Cut 304 Stainless Steel Exterior Sash
4. 10-Gauge Laser-Cut 304 Stainless Steel Exterior Frame
5. High-performance Silicone Gasket Weatherstrip Four points of contact ensure tight weather seal
6. Thermal Mechanical Fusion Stainless steel frame with welded stainless steel studs insert into GRP creating a mechanical bond
7. GRP-Glass Reinforced Pultrusion Structural composit thermal break material
8. 10-Gauge Laser-Cut 304 Stainless Steel Interior Frame
9. 10-Gauge Laser-Cut 304 Stainless Steel Interior Sash
THERMAL PERFORMANCE

• NFRC certified
• U-values as low as .20 (see thermal performance charts for specifics)
• The best energy performance in the steel window industry, with values rivaling high-performance wood windows
• Factory glazing means products will ship with NFRC label attached to glass

CONDENSATION RESISTANCE

• Thermally broken design greatly reduces the chance of condensation seen with most steel and aluminum window construction
• Product has gone through condensation resistance “CR” testing with results similar to high-performance wood windows

STAINLESS STEEL CONSTRUCTION

• Stainless steel construction with high-performance paint finish means your doors and windows will never develop “structural rust”
• Chromium found in stainless steel prevents the migration of rust – mild steel does not have this same protection

STRONGEST WARRANTY IN THE INDUSTRY

• 20-year limited warranty on our doors and windows – longest most comprehensive in the industry
• 10-year limited warranty on glass
• Because the product ships with the glass installed from our factory, you have “complete” warranty coverage from one company, unlike the typical limited coverage where the window manufacturer only covers their steel components, the glass manufacturer only covers their glass and the “onsite” glazer typically warranties nothing
• Be assured your investment is well protected from a single company with an 80 year track record, taking sole responsibility for workmanship
THERMALSTEEL
DESIGN FLEXIBILITY
Arcadia Custom’s Thermal Steel construction and manufacturing capabilities allow for a level of Design Flexibility not seen in the steel window industry.

Whether it is an irregular shaped window, unique door configuration, custom finish color, or an “architecturally correct” muntin bar detail, Arcadia Custom has the expertise and product to meet your requirements.

- High performance glass options
- Multiple glazing frame (bead) and muntin bar options
- Unlimited door and window configurations
- Mulling options that can create walls of glass
- Finish options: unlimited paint colors, brushed stainless surface or Cor-ten® surface
- Radius and curved-in-plane designs
- Complete product line: fixed, transoms, in-swing/out-swing casements, in-swing/out-swing doors, multi-fold door units, sliding door units, pivot doors, custom designs
- "Large format" oversize doors and windows
- Screen options: fixed, sliding, or retractable
Arcadia Custom offers improved energy performance insulated glass utilizing warm-edge spacer technology. This glass is a dual seal system that utilizes a high-performance acrylic adhesive that helps reduce thermal conductivity.

**Features Include:**
- Thicker: 1 1/8” overall glass thickness on dual-glaze
- High performance composite spacer, matte black finish
- Improved sound absorption
- High wind load resistance
- 10 year limited warranty
- Improved energy performance
- Available in TDL (true-divided light) or SDL (simulated divided light) options

**Glass Options Include:**
- Clear tempered
- Clear laminated
- Grey and bronze tint
- Low Iron – ultra clear
- Guardian 62/27 low-E
- Guardian 70/36 low-E
- Guardian IS 20 (4th surface Low-E)
- Other glass types available upon request
- Stainless steel spacer available
**TSX-40 Dual Glazed**
- Dual glaze - 1/4" individual panes with 5/8" air space for 1 1/8" over all glass thickness (**standard product**)
- Triple glaze – 1 1/2" over all glass thickness
- Single glazed - 3/8" thick glass
- Muntins available in either simulated divided light (SDL) or true divided light (TDL)

**TSX-50 Dual Glazed**

**TSX-50 Triple Glazed**

**TSX-30 Single Glazed**
THERMALSTEEL
GLAZING FRAME & MUNTIN OPTIONS
**Features:**
- Welded one-piece glazing frames
- Glazing frames factory installed
- Four architectural design options

<table>
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<tr>
<th>Perimeter</th>
<th>TDL Muntin</th>
<th>SDL Muntin</th>
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<tbody>
<tr>
<td>Putty</td>
<td>1(\frac{5}{16})&quot;</td>
<td>7(\frac{1}{8})&quot; (Standard) (\frac{5}{16})&quot; (Optional)</td>
</tr>
<tr>
<td>Sloped Bevel</td>
<td>1(\frac{5}{16})&quot;</td>
<td>7(\frac{1}{8})&quot;</td>
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<tr>
<td>Offset</td>
<td>1(\frac{5}{16})&quot;</td>
<td>7(\frac{1}{8})&quot;</td>
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<tr>
<td>Square</td>
<td>1(\frac{5}{16})&quot;</td>
<td>7(\frac{1}{8})&quot;</td>
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Other window configurations available.
THERMALSTEEL
DOOR CONFIGURATIONS
Other door configurations available.

Pair

Awning Over Door

Sidelight/Transom Door System

1/2 Round Transom Over Pair

Mullion French Door System
Size limitation: 12' width, 6' height, not to exceed 72 sq ft. Larger sizes require structural mullions.

Structural mullions designed to support window and door systems only, not structures above unit.
Structural mullion required at door sidelite transition. Structural mullions run continuously vertical for support.

**Door Elevation**

1. **Fixed/Fixed**
2. **Fixed/Fixed**
3. **Fixed/Fixed**
4. **Door/Fixed**

**Integral Mullion**

1. **Fixed/Fixed**
2. **Fixed/Operable**
3. **Fixed/Fixed**
4. **Fixed/Fixed**
**INSTALLATION CLIP ANCHORS**

**Brick - Flush Installation**

- #12 x 2” SS sheet metal screw and anchor sleeve
- Steel anchor clip size determined by pocket

**Brick - Lap Installation** (Shown with extended frame)

- #12 x 2” SS sheet metal screw and anchor sleeve
- Steel anchor clip size determined by pocket

**Stone - Lap Installation** (Shown with extended frame)

- Anchor screw and shims
- Steel anchor clip

**Stucco/Drywall - Lap Installation** (Shown with extended frame)

- Anchor screw and shims
- Steel anchor clip
- Sealing and backer rod

**Exterior**

- Metal angle by GC
- Bituthene flashing

**Interior**

- Metal angle by GC
Direct anchor not available on fixed units.

**Exterior**

- 21⁄4" Nail Flange

- #1/4-20 SS MS x 2"
- Sealant and backer rod

**Exterior**

- 31⁄2" Nail Flange with Clip

- #12 x 2" SS sheet metal screw and anchor sleeve
- Sealant and backer rod

**Exterior**

- 2⅛" Nail Flange

- #12 x 2" SS sheet metal screw and anchor sleeve
- Sealant and backer rod

**Aluminum Nail Flange**

- Bituthene or other weather barrier
- Second overlap weather barrier layer

3⅛" Nail Flange with Clip

2⅛" Nail Flange
Arcadia Custom’s Paint Systems is a multi-step process that combines optimum corrosion protection with the highest weatherability. Our paint process - combined with a stainless steel substrate - will out-perform all other finishes on mild steel. This durable acrylic polyurethane paint allows for unlimited color choices. Choose from any RAL, Metallic, or Exotic finish. Custom color match paint also available.

**THE PROCESS**

1: Stainless steel substrate is run through an abrasive blasting treatment producing an anchor bond for primer and paint adhesion

2: Acid etch primer coating

3: Epoxy primer coating

4: High-performance acrylic polyurethane paint coating

**STANDARD PAINT OPTIONS**

- Sift Expresso (Texture)
- Jet Black
- 9011 Black
- Atelier Dominique
- Argento 305 Metallic
- Statuary Bronze
- Black Bean Soup
- Brick Red
- Champagne 301 Metallic
- Sandstone

Textured or smooth paint surface available.
**STAINLESS STEEL FINISH:**
- Manufactured from 316 stainless alloy
- #4 brushed stainless surface

**COR-TEN® STEEL FINISH:**
- Manufactured from Cor-ten® steel
- Factory accelerated rust patina

Sample Texture

Living finish will continue to change in appearance, rust staining possible
**FEATURES:**
- Solid bronze hinges
- Solid bronze hardware trim available
- Stainless steel roto-crank arms for corrosion protection
- Several finish options available

**WINDOW HINGE TYPE**

**Butt Hinge - Standard (Solid Bronze)**
*See finish options below.*

**Acorn Hinge - Optional (Solid Bronze)**
*See finish options below.*

**Concealed Friction Hinge (Stainless Steel)**
Available on Push-Out, Awning, and Hopper. Weight limit 120lbs.

**BRONZE HARDWARE FINISH OPTIONS**

- White Light
- Medium Pewter
- Silicon Light
- Silicon Medium
- Silicon Dark
- Blackened Bronze
- Dark Pewter Antique
**Window Lock and Operator Options**

**Simplex – Single Point**
Available on push-out, in-swing. Two locks on windows over 48”.
*See finish options previous page.

**Crank-Out Operator (Steel)**
Out-swing window only.
Black and nickel finish only.

**Bronze Crank-Out Operator**
Out-swing casement window only.
(not available for awning windows).
*See finish options previous page.

**Bronze Multi-point Sash T-Pull**
Used with multi-point trim on push-out window.
*See finish options previous page.

**Multi-point Trim (Steel)**
Black and nickel finish only.

**Bronze Multi-point Trim**
*See finish options previous page.

**Bronze Multi-point Trim (Steel)**
Black and nickel finish only.

**Black (Standard)**

**Brushed Nickel**
Bronze Door Levers

*See finish options on page 37.

#016 Handle

#70 Handle

#159 Handle

#164 Handle

#166 Handle

Lever Escutcheon & interior Thumb Turn

Keyed Profile Cylinder

Escutcheon Details
FLUSHBOLT

Standard on inactive doors. Dummy door lever standard.

DOOR HINGE

Butt Hinge - Standard (Solid Bronze)
*See finish options page 35.

PREMIUM DOOR MULTI-POINT LEVER OPTIONS

Contemporary Stainless Steel Door Lever
Available in brush stainless or black finish.

Classic Bronze Door Lever
*See finish options page 37.
**CASEMENT WINDOWS**

**FEATURES:**
- Out-swing or In-swing
- Roto-crank or push-out operation
- Removable fixed screens or roll-down screens available
- Sizes up to: 3’ - 6” width, 8’ height

**ELEVATIONS**

- Casement
- Twin Casement
- French Casement
ANCHORING OPTIONS

1. Exterior
2. Exterior
3. Exterior
4. Exterior
5. Exterior (Twin casement mullion)
6. Exterior (French casement meeting stiles)

DETAILS

- Exterior
- Interior
- 2"
- 1 11/16"
- 1 13/16"
- 4"
- 2 3/8"
- 2 1/4" or 3 1/2"

- Direct Anchor
- Anchor Clip
- Nail Flange/Clip

Direct Anchor
(Always required for butt hinges)
AWNING WINDOW OPTIONS:

- Butt hinge with roto-crank operation
- Concealed friction hinge, push-out operation
- Motorized operation

HOPPER WINDOW OPTIONS:

- Concealed friction hinge with limiter

AWNING ELEVATION

HOPPER ELEVATION
**AWNING DETAILS**

1. Exterior

2. Exterior

3. Exterior

4. Exterior

**HOPPER DETAILS**

5. Exterior

6. Exterior

7. Exterior

8. Exterior
FEATURES:

- In-swing or out-swing
- Multi-point Lock standard
- Lock-box options:
  - 12” standard
  - Stretched between muntins
FRENCH DOORS

1. Exterior (Out-swing)
   - 1 13/16" x 2"

2. Exterior (In-swing)
   - 2 1/4" x 2 1/4"

3. Exterior (Out-swing)
   - 2 5/8" x 1 13/16"

4. Exterior (Out-swing)
   - 2 5/8" x 1 13/16"

5. Exterior (Meeting Stile)
   - 4" x 1 13/16"

6. Exterior (Lock Block)
   - 2 3/8" x 6 5/8"

7. Exterior (Standard – Narrow Profile)
   - 1 1/4" x 2 2/2"

8. Exterior
   - 1" x 2"

8A. Exterior
   - 1" x 2"

9. Exterior (Standard – Narrow Profile)
   - 2 1/4" x 2 1/4"

10. Exterior
    - 1" x 2"
FEATURES:
- Aluminum and solid bronze sills available
- Custom door bottom rail heights available
- Recessed flat door panels available

BOTTOM RAIL OPTIONS

Standard Bottom Rail

Variable Bottom Rail

Recessed Bottom Panel
FEATURES:

- Rixson™ heavy-duty center hung pivot hardware standard
- Rixson™ heavy-duty floor closer option available for commercial applications
- Sizes up to: 6’ width, 12’ height
- Multi-point lock standard
FEATURES:
• Conventional and multi-slide configurations
• Stainless steel lift-slide hardware gear
• Door panel sizes up to: 6’ width, 12’ height
• Sliding screen doors available
• Dual or triple glaze glass options available

ELEVATIONS

1. Conventional XO
2. Conventional OXXO
3. Pocket Multi-Slide XXP
4. Multi-Slide XXO
**FEATURES:**

- Conventional lift-slide sill options:
  - Flush track
  - Aluminum sill (thermally broken)
- Sliding screen doors available
**FEATURES:**

- **Multi-slide sill options:**
  - Flush track – unlimited number of door panels
  - Aluminum sill (thermally broken), up to 3 door panels

- **Pocket lift-slide:**
  - Flush track only

---

**Aluminum Sill – With Screen (Thermal Break)**

**Exterior**

**Meeting Stiles**

**Flush Track with Drain System – Multi-slide**
LIFT-SLIDE HARDWARE:

- Solid bronze lever (standard - interior)
- Removable handle for pocket doors
- Bronze flush pull (standard - exterior)
- Dark bronze finish standard
**Features:**

- Door panel sizes up to: 39” width, 120” height, not to exceed 220 lbs
- Door thickness 1 13/16”
- Available from 3 to 8 door configurations
**Features:**

- Door panel sizes up to: 42” width, 144” height, not to exceed 330 lbs
- Door thickness 2 1/4”
- Available from 3 to 8 door configurations