Choose **HERRERO by AMIGHINI** and you will enjoy technologically advanced, low maintenance Steel Windows and Doors which will meet the latest performance requirements for insulation, weatherproofing and security and which will last for many years.

All of our doors are sensitively crafted to the highest standards in our own new modern factory.

The process of manufacturing a steel door – from rolling into shape and welding to metalizing and powder coat painting – is a complex one which takes time and attention to ensure the end product is the standard people have come to expect from us.
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PERFORMANCE

THERMAL PERFORMANCE
NFRC certified.- U-values as low as .20 One of the best energy performances in the steel windows industry, with values rivaling high-performance wood windows.- Factory glazing means products will ship with NFRS label attached to glass.

CONDENSATION RESISTANCE
Our Thermally broken line design greatly reduces the chance of condensation seen with most steel and aluminum window construction.- Product has gone through condensation resistance "CR" testing with the results - similar to high-performance wood windows.

STEEL DOORS & WINDOWS BENEFITS
• Metalizing process ensures that the window will be free from rust and helps to increase the window's lifespan.
• Polyester powder coating means that a steel window will not need to be painted for at least twenty years. We have our exclusive finish colors selection. A wide range of colors are also available and can be specified using the RAL color chart system.
• Opening windows can be hinged on the side or the top and come complete with ironmongery that can be sympathetic to the original or with a more modern look. They have a double weather seal and so exceed PAS23 requirements.
• Glazing decoration can be specified so that the window retains an existing leaded, Georgian or Modern glazing appearance. The glass units are made up of soft coat glass which helps retain the heat in a home, low ion glass which draws the suns rays through the glass in the winter months, Krypton gas helps increase thermal insulation as well as the added benefit of increased sound insulation and a warm edge spacer also helps increase thermal insulation.
• Doors are manufactured from either W20 or W40 steel profiles and complement the steel window in profile and style. Single and double (French) doors are available and can be manufactured to very large dimensions.
• Doors are available with traditional mid rails and kicking panels or with large full height glass panes. Locking mechanisms can be traditional mortise locks with lever/lever handles and shoot bolts or concealed multi locking with an internal handle.

All windows and doors are manufactured to bespoke dimensions and designs and therefore ensure that customers can specify what they desire.
DESIGN FLEXIBILITY
HERRERO by AMIGHINI Solid and Thermal Steel construction and manufacturing capabilities allow for a level of Design Flexibility not seen in the steel window and door industry.

- High performance glass options.
- Multiple glazing frame (bead) and muntin bar options.
- Unlimited door and window configuration.
- Mulling options that can create walls of glass.
- Radius and curved-in-plane designs.
- “Large format” oversize doors and windows.
- Screen options: fixed, or retractable.
HW20 - SOLID STEEL
Features:
- Solid hot rolled steel profiles.
- “Stepped leg” design.
- Material thickness up to 5 mm.
- Very compact profiles with minimal depth and sightlines.
- Self-adhesive non-shrinking gaskets.
- Low emissivity double-glazing up to 21 mm.
- Choice of different glazing beads.
- Appropriate for heavy-duty corrosion protection.

HW40 - SOLID STEEL
Features:
- Solid hot rolled steel profiles.
- “Stepped leg” design.
- Material thickness up to 5 mm.
- Very compact profiles with minimal depth and sightlines.
- Self-adhesive non-shrinking gaskets.
- Low emissivity double-glazing up to 27 mm.
- Choice of different glazing beads.
- Appropriate for heavy-duty corrosion protection.

HMT50 - THERMALY BROKEN
Features:
- Precision cold formed steel profiles.
- “Stepped leg” design.
- High density cast in polyurethane isolator.
- Very compact profiles with minimal depth and sightlines.
- Mechanically fixed non-shrinking gaskets.
- Low emissivity double-glazing up to 37 mm.
- Choice of different glazing beads.
- Zinc-magnesium pre-coating for corrosion protection.
TB-SD - COLD ROLLED STEEL

Features:
Cold-formed steel manufactured from steel sheet metal. The manufacturing process involves forming the material by cold roll forming. When steel is formed by cold rolling, there is a change in the mechanical properties of the material through the cold working of the metal. When a steel section is cold-formed from flat sheet or strip, the yield strength and to a lesser extent the ultimate strength, are increased as a result of this cold working, particularly in the bends of the section.

- Low emissivity double-glazing up to 37 mm.
- Choice of different glazing beads.
- Precision cold formed steel profiles.
- High density injected foam isolator.
- Mechanically fixed non-shrinking gaskets.
- Muntins available in either simulated divided light (SDL) or true divided light (TDL).
HERRERO by AMIGHINI 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.

**FEATURE INCLUDE:**
- Thicker: 1 1/8” overall glass thickness on dual-glaze.
- High performance composite spacer, matte dark, bronze finish.
- Improved sound absorption.
- High wind load resistance.
- Improved energy performance.
- Available in TDL (true-divided-light) or SDL (simulated divided light) options.

**GLASS OPTIONS INCLUDE:**

- 5mm+6A+5mm Aquatex
- 5mm+6A+5mm Clear
- 5mm+6A+5mm Grey
- 5mm+6A+5mm Watercube
- 5mm+6A+5mm Rain
- 5mm+6A+5mm Reed
- 5mm+6A+5mm Frosted
- 5mm+6A+5mm Flemish
- 5mm+6A+5mm Water Ripple
- 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.
- Welded one-piece glazing frames.
- Glazing frames factory installed.
WINDOW CONFIGURATIONS

Fixed Over Awning  
Fixed Over Hopper  
Casement Over Fixed  
Fixed Over Casement  
Awning Over Casement  

Fixed/Operating Window Wall  
Fixed Window Wall  

Left, Fixed, Right  
1/2 Round Transom Over French Casement
DOOR CONFIGURATIONS

Pair

1/2 Round Transform Over Pair

Awning Over Door

Sidelight/Transom Door System

Mulled French Door System
DOOR AND WINDOW ELEVATION

INTEGRAL MULLION DETAILS
Size limitation: 12’ width, 6’ height, not to exceed 72 sq ft. Larger sizes require structural mullions.

STRUCTURAL MULLION DETAILS
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.
INSTALLATION DETAILS

INSTALLATION CLIP ANCHORS

Brick - Flush Installation

Brick - Lap Installation  
(shown with extended frame)

Stone - Lap Installation  
(shown with extended frame)

Stucco/Drywall - Lap Installation  
(shown with extended frame)
INSTALLATION DIRECT ANCHORS

3 ½" Nail Flange with clip

2 ¼" Nail Flange

METAL NAIL FLANGE

Bituthene or other weather barrier

Second overlap weather barrier layer

Anchor clip for additional support

Nail flange

Bituthene or other weather barrier

Second overlap weather barrier layer
HERRERO by AMIGHINI 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.

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.
PAINT FINISH

Metalized Patina Finish (Solid Steel & Thermally Broken Steel)

- Madrid Bronze
- Lyon Bronze
- Verona Dark Bronze
- Black Night

- Storm Gray
- Queen Silver

Super Durable Powder Coat (Solid Steel Only)

- Bronze Macao
- Midnight Bronze
- Italia Bronze
- Satin Black

Epoxi Shirld Paint (Solid Steel & Thermally Broken Steel)

- Bronze Macao
- Midnight Bronze
- Italia Bronze
- Satin Black
HERRERO

DOOR HARDWARE

Modern Rectangular Keyed Stretto
2" x 10"

Modern Rectangular Non-Keyed Stretto
1-1/2" x 11"

New Orleans Series
(B1810/B2161)
Antique Bronze

Missoula Series
(B1023/B3741)
Dark Bronze

AWNING PUSH AND PULL LOCKS

SINGLE AND MULTI-POINT LOCKS

Backset: 1-3/4" (45mm)
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
CASEMENT WINDOWS

HW-40 SOLID STEEL DETAILS

1.  

2.  

3.  

4.  

5.  

6.  

HMT50 THERMALLY BROKEN STEEL DETAILS

1.  

2.  

3.  

4.  

5.  

6.  

HERRERO
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
FEATURES

- In-swing or out-swing
- Multi-point Lock standard
- Lock-box options:
  - 12" standard
  - Stretched between muntins
- Aluminum and solid bronze sills available
- Custom door bottom rail heights available
- Recessed flat door panels available

ELEVATIONS

Single

Pair

Door / Sidelite
FRENCH DOORS

SILL OPTIONS

Out-Swing (standard)

Aluminum In-Swing (standard)

Aluminum Out-Swing (standard)

Low Profile Out-Swing
Aluminum-Thermal Break

Subfloor Sill (In-Swing/Out-Swing)
Aluminum-Thermal Break

Solid Bronze (In-Swing/Out-Swing)
Non-Thermal Break

BOTTOM RAIL OPTIONS

Standard Bottom Rail

Variable Bottom Rail

Recessed Bottom Panel
FEATURES

- Heavy-duty center hung pivot hardware standard.
- Heavy-duty floor closer option available for commercial applications.
- Sizes up to: 6’ width, 12’ height.
- Multi-point lock standard.
LIFT-SLIDE DOOR SYSTEMS
FEATURES

- Conventional and multi-slide configurations.
- Stainless steel lift-slide hardware gear.
- Door panel sizes up to: 6’ width, 12’ height.
- Dual or triple glaze glass options available.
- Pocket lift-slide:
  - Flush track only.
- Conventional lift-slide sill options:
  - Flush track.
  - Aluminum sill (thermally broken).
- Multi-slide sill options:
  - Flush track.
  - Unlimited number of door panels.
  - Aluminum sill, up to 3 door panels.

ELEVATIONS
MULTI-FOLD DOOR

ELEVATION

HW-40 SOLID STEEL SYSTEM DETAILS

- Door panel sizes up to: 39" width, 120" height.
- Door thickness 2\(\frac{3}{16}\)".
- Available from 3 to 8 door configurations.
HMT50 THERMALLY BROKEN STEEL SYSTEM DETAILS

- Door panel sizes up to: 39" width, 120" height.
- Door thickness 2\(\frac{3}{16}\)".
- Available from 3 to 8 door configurations.