



2000 SERIES INSULATED STEEL & GLASS WINE DOORS AND VISION LIGHTS

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes:

1. Insulated steel and glass modular wine doors.
2. Fixed glazed steel vision light framing systems.
3. Related hardware, accessories, and installation materials.

B. Related Sections:

1. Section 05 50 00 – Metal Fabrications
2. Section 08 80 00 – Glazing
3. Section 09 90 00 – Painting and Coating

1.2 REFERENCES

A. ANSI Z97.1 – Safety Glazing Materials Used in Buildings

B. CPSC 16 CFR 1201 – Safety Standard for Architectural Glazing

C. ASTM E1300 – Glass Strength and Load Resistance

1.3 SUBMITTALS

A. Product Data:

1. Manufacturer's specifications.
2. System descriptions, material data, finishes, and hardware.

B. Shop Drawings:

1. Elevations, sections, and details.
2. Door, vision light, and framing layouts.
3. Installation details and anchorage conditions.

C. Samples:

1. Powder coat color samples (minimum 3" x 3").

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Minimum five (5) years experience in fabrication of modular steel and glass door systems.

B. Fabricator Qualifications:

1. Specialized experience in welded architectural steel assemblies.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver systems factory assembled and protected.

B. Store materials in dry, protected conditions.

C. Protect finishes from damage during handling and installation.

1.6 WARRANTY

A. Provide manufacturer's written warranty covering:

1. Steel framing and fabrication: Limited lifetime warranty.
2. Insulated glass units: Five (5) year limited warranty.
3. Hardware: Manufacturer's standard warranties.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Basis of Design:

2000 Series Insulated Steel & Glass Modular Wine Door and Vision Light System

[Manufacturer Name]

B. Substitutions:

Products of equal design, performance, materials, and construction will be considered in accordance with Division 01 requirements.

2.2 SYSTEM DESCRIPTION

A. Modular steel and glass thermally enhanced and thermally broken door and framing system designed for larger conditioned interior wine enclosures.

B. System shall include factory fabricated pre-glazed modular assemblies and pre-hung doors.

2.3 MATERIALS

A. Steel Framing

1. Door Construction:

- 1-1/2" × 1-1/2" fully welded, seamless, thermally enhanced steel members.
- Ground and buffed welded corners.

2. Door Frames:

- Four-sided, core-filled steel door frame.
- Fully weathered construction.

3. Vision Light Framing:

- 1" × 2" welded and buffed modular steel framing system.

- Factory pre-glazed.

B. Glazing

1. 3/4" insulated clear tempered safety glass.
2. Argon gas filled insulated glass units (IGU).
3. Compliant with ANSI Z97.1 and CPSC 16 CFR 1201.

C. Hardware – Standard

1. (3–4) 4-3/4" welded barrel hinges.
2. 24" offset square pull handle, single side.
3. Jamb-mounted cam lock.
4. Proprietary magnetic / ball-bearing catch system.

D. Hardware – Optional

1. Alternate handle profiles and lengths.
2. Lock upgrades.
3. Custom hardware configurations.

2.4 ACCESSORIES & OPTIONS

- A. Machined, core-filled 90° corner posts.
- B. Core-filled wall posts.
- C. Custom mullions.

2.5 FINISH

A. Standard Finish:

- Architectural-grade powder coat finish.

B. Optional Finishes:

- Custom powder coat colors.
- Specialty finishes upon request.

2.6 FABRICATION

- A. Fabricate assemblies square, plumb, and true to indicated dimensions.
- B. Weld, grind, and buff joints for seamless architectural appearance.
- C. Factory pre-glaze all assemblies prior to shipment.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Verify opening dimensions, tolerances, and conditions prior to installation.
- B. Do not proceed until unsatisfactory conditions are corrected.

3.2 INSTALLATION

- A. Install systems plumb, level, square, and aligned.
- B. Install pre-hung and modular assemblies in accordance with manufacturer's instructions.
- C. Anchor securely to adjacent construction.
- D. Install glazing and hardware without damage to finishes.

3.3 ADJUSTING AND CLEANING

- A. Adjust doors for smooth operation and proper clearances.
- B. Clean exposed surfaces and glazing.
- C. Remove protective coverings after installation.

3.4 PROTECTION

A. Protect installed systems from damage until substantial completion.

Warranty

Project:

Name

Address

Insulated Steel & Glass Modular Door and Partition System

PART 1 – GENERAL

1.01 SUMMARY

A. Furnish and install factory-fabricated insulated steel and glass modular door and partition systems as specified herein.

B. System shall include doors, framing, glazing, hardware, finishes, and accessories required for complete installation.

1.02 REFERENCES

A. ASTM E84 – Surface Burning Characteristics of Building Materials

B. ASTM E1300 – Standard Practice for Determining Load Resistance of Glass

C. ANSI Z97.1 – Safety Glazing Materials Used in Buildings

1.03 SUBMITTALS

- A. Product Data: Manufacturer's technical literature, system descriptions, profiles, finishes, and performance data.
- B. Shop Drawings: Fully dimensioned elevations, sections, details, anchorage methods, hardware locations, and tolerances.
- C. Samples: Powder coat finish samples, minimum 3" x 3".
- D. Warranty Documentation.

1.04 QUALITY ASSURANCE

- A. Manufacturer shall have minimum five (5) years' experience producing thermally enhanced steel and glass door and partition systems.
- B. Fabrication shall be performed in a controlled factory environment.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's original packaging, labeled and protected.
- B. Store products in a clean, dry, covered location.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Basis of Design: Wine Front Direct
- B. Approved Substitutions: Subject to architect approval.

2.02 DOOR SYSTEM

A. Door Construction:

1. Profile: 1-1/2" x 1-1/2" thermally enhanced steel stiles and rails.
2. Fabrication: Fully welded and ground smooth.
3. Glazing: 3/4" insulated glass units.
4. Hardware: Premium Adams Rite® hardware set including closers, latches, and pull handles as scheduled.
5. Finish: Factory-applied architectural-grade powder coat.

2.03 PARTITION FRAMING SYSTEM

A. Framing Construction:

1. Profile: 1-1/2" x 1-1/2" thermally enhanced / thermally broken steel framing.
2. Fabrication: Fully welded construction with concealed anchorage.
3. Glazing: 3/4" tempered insulated glass.
4. Finish: Factory-applied architectural-grade powder coat.

2.04 GLAZING

A. Type: Insulated Glass Units (IGU)

B. Thickness: 3/4" nominal

C. Safety Compliance: ASTM E1300 and ANSI Z97.1

D. Performance: Designed for controlled wine cellar environments

2.05 HARDWARE

A. Manufacturer: Adams Rite®

B. Finish: Coordinated to powder coat finish

C. Components: Closers, latch sets, locks, pull handles, and accessories as scheduled

2.06 FINISHES

A. Powder Coat:

1. Architectural-grade polyester powder coat.
2. Applied in a controlled factory environment.
3. Minimum thickness per AAMA standards.

PART 3 – EXECUTION

3.01 EXAMINATION

A. Verify opening dimensions, substrate conditions, and tolerances prior to fabrication.

3.02 INSTALLATION

A. Install systems plumb, level, and square in accordance with approved shop drawings and manufacturer's instructions.

B. Provide complete perimeter sealing and anchorage.

3.03 ADJUSTING AND CLEANING

- A. Adjust doors and hardware for proper operation.
- B. Clean glass and exposed surfaces.

PART 4 – WARRANTY

4.01 WARRANTY COVERAGE

- A. Insulated Glass: Five (5) year limited warranty against seal failure and manufacturing defects.
- B. Powder Coat Finish: Ten (10) year limited warranty against fading and normal wear.
- C. Framing and Door Construction: Lifetime warranty against structural frame failure.