SECTION 08 11 16

ALUMINUM/WOOD SWING DOORS

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\*\* NOTE TO SPECIFIER \*\* LaCantina Doors; Folding, Sliding and Swing aluminum and wood door products.  
.  
This section is based on the products of LaCantina Doors, which is located at:  
1875 Ord Way  
Oceanside, CA 92056  
Toll Free Tel: 866-981-8485  
Tel: 760-734-1590  
Fax: 760-734- 1591  
Email: [request info (sales@lacantinadoors.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=LaCantina+Doors&coid=43805&rep=&fax=760-734-)  
Web: [www.lacantinadoors.com](http://www.lacantinadoors.com)   
 [ [Click Here](http://www.arcat.com/arcatcos/cos43/arc43805.html) ] for additional information.  
Now is the time to OPEN SPACES and remove the hard line that once divided indoors from outdoors. Bring the two worlds together.and never more effectively or elegantly than with LaCantina wood bi-fold doors and sliding doors.  
Architects and designers will not only be impressed by the contemporary styling and ability to transform a space, but by their outstanding quality and trouble-free operation.  
Our innovative frame system and appealing European narrow stile and rail door panels maximize your view. Combined with the highest quality hardware our bi-fold doors are as functional as they are fashionable!  
Manufactured in the USA and distributed worldwide our superior quality folding door systems are built to perform. LaCantina Doors is America's leading brand of folding door systems.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Aluminum Swing doors.
    2. Aluminum Thermally Controlled Swing doors.
    3. Aluminum Wood Swing doors.
    4. Contemporary Clad Wood Swing doors.
    5. Wood Swing doors.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 06 10 00 - Rough Carpentry.
    2. Section 06 20 00 - Finish Carpentry.
    3. Section 07 91 23 - Backer Rods.
    4. Section 08 71 53 - Security Door Hardware.
    5. Section 09 90 00 - Painting and Coating.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. AAMA 611.98 - Voluntary Specification for Anodized Architectural Aluminum.
    2. AAMA 2603.02 - Voluntary Specifications, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
    3. AAMA 2604 - Voluntary Specifications, Performance Requirements and Test Procedures for Pigmented for High Performance Organic Coatings on Aluminum Extrusions and Panels.
    4. ANSI Z97.1 - Safety Performance Specifications and Methods of Test for Safety Glazing Material Used In Buildings.
    5. ASTM E 283 - Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
    6. ASTM E 330 - Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
    7. ASTM E 547 - Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential.
    8. CPSC 16CFR-1201 - Safety Standard for Architectural Glazing Materials.
  1. DESIGN / PERFORMANCE REQUIREMENTS
     1. Swing Door Systems to comply with the performance requirements specified with independently certified testing results.

\*\* NOTE TO SPECIFIER \*\* Select the Performance paragraphs for the door(s) specified and delete those not required.

* + 1. Aluminum Swing Door: With weather resistant sill.
       1. Outswing Test Results: Size tested 42 inches by 120 inches with weather resistant sill
          1. Air Infiltration: ASTM E 283 when tested at 1.6 psf (25 mph), 0.23 CFM/FT2
          2. Water Infiltration: ASTM E 547 when tested at 6.0 PSF, DP 40, No Leakage
          3. Uniform Load Deflection: ASTM E 330 when tested at plus or minus 40.0 PSF, DP 40, 2.12 inch Positive / 2.15 inch Negative.
          4. Uniform Load Structural: ASTM E 330 when tested at plus or minus 60.0 PSF, DP 40, 0.12 inch Positive / 0.15 inch Negative.
          5. Overall DP Rating: DP 40
       2. Inswing Test Results: Size tested 42 inches by 120 inches with weather resistant sill.
          1. Air Infiltration: ASTM E 283 when tested at 1.6 psf (25 mph), 0.28 CFM/FT2
          2. Water Infiltration: ASTM E 547 when tested at 3.8 PSF, DP 25, No Leakage
          3. Uniform Load Deflection: ASTM E 330 when tested at plus or minus 25.0 PSF, DP 25, 0.84 inch Positive / 0.86 inch Negative.
          4. Uniform Load Structural: ASTM E 330 when tested at plus or minus 37.5 PSF, DP 25, 0.0 inch Positive / 0.05 inch Negative.
    2. Aluminum Thermally Controlled Swing Door:
       1. Outswing Test Results: Size tested 42 inches by 120 inches with weather resistant sill.
          1. Air Infiltration: ASTM E 283 when tested at 1.6 psf (25 mph), 0.06 CFM/FT2
          2. Water Infiltration: ASTM E 547 when tested at 6.0 PSF, DP 40, No Leakage
          3. Uniform Load Deflection: ASTM E 330 when tested at plus or minus 40.0 PSF, DP 40, 1.56 inch Positive / 1.51 inch Negative.
          4. Uniform Load Structural: ASTM E 330 when tested at plus or minus 60.0 PSF, DP 40, 0.06 inch Positive / 0.06 inch Negative.
          5. Overall DP Rating: DP 40
       2. Inswing Test Results: Size tested 42 inches by 120 inches with weather resistant sill.
          1. Air Infiltration: ASTM E 283 when tested at 1.6 psf (25 mph), 0.06 CFM/FT2
          2. Water Infiltration: ASTM E 547 when tested at 3.80 PSF, DP 25, No Leakage
          3. Uniform Load Deflection: ASTM E 330 when tested at plus or minus 25.0 PSF, DP 25, 0.84 inch Positive / 0.86 inch Negative.
          4. Uniform Load Structural: ASTM E 330 when tested at plus or minus 37.5 PSF, DP 25, 0.00 inch Positive / 0.08 inch Negative.
    3. Aluminum Wood Swing Door: With weather resistant sill.
       1. Outswing Test Results: Size tested 42 inches by 120 inches with weather resistant sill.
          1. Air Infiltration: ASTM E 283 when tested at 1.6 psf (25 mph), 0.06 CFM/FT2
          2. Water Infiltration: ASTM E 547 when tested at 6.0 PSF, DP 40, No Leakage
          3. Uniform Load Deflection: ASTM E 330 when tested at plus or minus 40.0 PSF, DP 40, 2.05 inch Positive / 1.76 inch Negative.
          4. Uniform Load Structural: ASTM E 330 when tested at plus or minus 60.0 PSF, DP 40, 0.06 inch Positive / 0.0 inch Negative.
          5. Overall DP Rating: DP 40
       2. Inswing Test Results: Size tested 42 inches by 120 inches with weather resistant sill.
          1. Air Infiltration: ASTM E 283 when tested at 1.6 psf (25 mph), 0.06 CFM/FT2
          2. Water Infiltration: ASTM E 547 when tested at 3.800 PSF, DP 25, No Leakage
          3. Uniform Load Deflection: ASTM E 330 when tested at plus or minus 40.0 PSF, DP 40, 1.55 inch Positive / 1.51 inch Negative.
          4. Uniform Load Structural: ASTM E 330 when tested at plus or minus 60.0 PSF, DP 40, 0.0 inch Positive / 0.08 inch Negative
          5. Overall DP Rating: DP 25
    4. Contemporary Clad Swing Door: With weather resistant sill.
       1. Outswing Test Results: Size tested 39 inches by 96 inches with weather resistant sill.
          1. Air Infiltration: ASTM E 283 when tested at 1.6 psf (25 mph), 0.15 CFM/FT2 infiltration
          2. Water Infiltration: ASTM E 547 when tested at 6.0 PSF, DP 40, No Leakage
          3. Uniform Load Deflection: ASTM E 330 when tested at plus or minus 40.0 PSF, DP 40, 0.12 inch Positive / 0.12 inch Negative.
          4. Uniform Load Structural: ASTM E 330 when tested at plus or minus 60.0 PSF, DP 40, 0.00 inch Positive / 0.14 inch Negative.
          5. Overall DP Rating: DP 40
       2. Inswing Test Results: Size tested 39 inches by 96 inches with weather resistant sill.
          1. Air Infiltration: ASTM E 283 when tested at 1.6 psf (25 mph), 0.00 CFM/FT2
          2. Water Infiltration: ASTM E 547 when tested at 3.76 PSF, DP 25, No Leakage
          3. Uniform Load Deflection: ASTM E 330 when tested at plus or minus 40.1 PSF, DP 40, 0.11 inch Positive / 0.12 inch Negative.
          4. Uniform Load Structural: ASTM E 330 when tested at plus or minus 60.15 PSF, DP 40, 0.11 inch Positive / 0.14 inch Negative
          5. Overall DP Rating: DP 25
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Storage and handling requirements and recommendations.
        3. Installation methods.
     3. Shop Drawings: Include outside net frame dimensioning, direction of swing (outswing or inswing), typical head, side jamb, sill and panel details and type of glazing material per vertical plan and elevations view drawings.

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraphs if LEED is not applicable.

* + 1. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
       1. List of proposed materials with recycled content. Indicate post-consumer recycled content and pre-consumer recycled content for each product having recycled content.
       2. Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
    3. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
    4. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic checking and adjustment of cable tension and periodic cleaning and maintenance of all railing and infill components.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Provide complete, engineered and high quality swing door system by a single source manufacturer with at least 10 years documented experience manufacturing folding door systems in the U.S.
     2. Installer Qualifications: Installer with documented experienced in the installation of manufacturer's sliding door systems or similar and screen system to the products specified.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
       3. Refinish mock-up area as required to produce acceptable work.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Store products in manufacturer's unopened packaging until ready for installation.
     2. Protect stored product from damage. Store products flat in dry, well ventilated area out of direct sunlight, under cover, protected from weather, moisture and excessive dryness and construction activities.
  2. SEQUENCING
     1. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
     2. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
  4. WARRANTY
     1. Manufacture's limited warranty including; 10 years for panel and frame aluminum components, Kynar and Decoral product finishes, hardware, and weatherstripping; 5 years for locking hardware; 10 years for insulated glass against failure of the air seal and that each unit will be free from material obstruction of vision as a result of fogging or film formation on the internal surfaces.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: LaCantina Doors, which is located at: 1875 Ord Way; Oceanside, CA 92056; Toll Free Tel: 866-981-8485; Tel: 760-734-1590; Fax: 760-734- 1591; Email: [request info (sales@lacantinadoors.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=LaCantina+Doors&coid=43805&rep=&fax=760-734-); Web: [www.lacantinadoors.com](http://www.lacantinadoors.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Edit the following paragraphs as required. Structural load testing results are only applicable for the test door system panel size. Comparative analysis by an engineer can determine which panel sizes (if any) would meet structural loading design pressures specifically required for the project. Check for limitations on the use of comparative analysis in the jurisdiction of the project.

* 1. SWING DOORS AND FRAMES

\*\* NOTE TO SPECIFIER \*\* Aluminum Swing doors are available in any configuration. Coordinate the size with the performance requirements of the project. Contact the manufacturer for additional information.

* + 1. Aluminum Swing Door:
       1. Frame and Panels: Complete single or double outswing or inswing door system including head, side jambs, thresholds and aluminum panels to sizes indicated on the Drawings.
          1. Panel: Extruded aluminum stile and rail panel with standard one lite.

Thickness 1-3/4 inches (44.5 mm).

Stile and Rail 2-3/4 inches (70 mm).

\*\* NOTE TO SPECIFIER \*\* Select the following optional paragraphs if required and delete if not required.

10 inch (254 mm) ADA bottom rail.

* + - * 1. Frame and Sill: Extruded aluminum.
        2. Weatherstripping: Weather seal inserted in frame and sill to provide perimeter seal, as well as between door panels. Color is dark bronze.
      1. Configuration:
         1. Complete swing door system including head, side jambs, sills and aluminum door panels.
         2. Sizing and Configuration Options: Provide frames and door panels to sizes and swings indicated on the Drawings.

Standard Frame Height:

6 feet 11-11/16 inches

7 feet 11-11/16 inches

Custom

Maximum Frame Height:

10 feet 4 inches

Standard Frame Width:

Single: 3 feet 2-1/16 inches

Double: 6 feet 4-1/8 inches

Custom

Maximum Frame Width:

3 feet 6-1/8 inches

6 feet 9-5/8 inches

* + - 1. Glass: All glass to comply with safety glazing requirements of ANSI Z97.1 and CPSC 16CFR 1201.
         1. Type: Cardinal dual glazed low-E glass.

Insulated glass with a 3/4 inch (19 mm) overall thickness.

* + - * 1. Size Tested: 37-3/4 inches by 82-3/8 inches.
        2. Glass:

\*\* NOTE TO SPECIFIER \*\* Select glass paragraph required and delete those not required.

Air Filled:

Clear-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.71, SHGC 0.55, VT 0.57

LowE180-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.60, SHGC 0.46, VT 0.55

LowE240-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.60, SHGC 0.20, VT 0.27

LowE272-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.59, SHGC 0.31, VT 0.50

LowE270-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.59, SHGC 0.28, VT 0.48

LowE366-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.59, SHGC 0.22, VT 0.45

Argon Filled:

Clear-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.69, SHGC 0.55, VT 0.57

LowE180-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.56, SHGC 0.46, VT 0.55

LowE240-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.56, SHGC 0.20, VT 0.27

LowE272-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.55, SHGC 0.31, VT 0.50

LowE270-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.55, SHGC 0.28, VT 0.48

LowE366-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.55, SHGC 0.22, VT 0.45

Solarban SB60-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.55, SHGC 0.29, VT 0.50

Solarban SB70-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.55, SHGC 0.22, VT 0.45

Argon Filled with room side LowE I89.

LowE272-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.52, SHGC 0.30, VT 0.49

LowE270-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.52, SHGC 0.27, VT 0.47

LowE240-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.52, SHGC 0.19, VT 0.26

LowE366-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.52, SHGC 0.21, VT 0.44

* + - * 1. Glazing: Silicone bedding on exterior surfaces and glazing seal on the interior of the panel.

\*\* NOTE TO SPECIFIER \*\* Select optional paragraph if required and delete if not required.

* + - * 1. Simulated Divided Lites: Sculpted profile as selected.
      1. Locking Hardware and Handles: Manufacturer's standard multi-point locking system.
         1. Handle Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete the one not required.

Brushed Satin Aluminum color.

Brushed Satin Bronze color.

* + - * 1. Provide panel handle height centered at 36 inches (914 mm) from bottom of panel.
      1. Hardware: Manufacturer's standard hardware integrated with engineered side jambs and threshold frame system.
         1. Hinges: Double leaf bearing hinges.

\*\* NOTE TO SPECIFIER \*\* Select the optional panic hardware if required. Delete if not required.

* + - * 1. Concealed panic hardware.
        2. Threshold:

\* NOTE TO SPECIFIER \*\* Select the threshold type required from the following paragraphs and delete those not required.

Standard Self-draining Weather Resistant Sill.

Flush sill.

Ramp sill.

ADA Compliant ramp sill.

* + - 1. Aluminum Finish: Provide same finishes on inside and outside.

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete those not required.

* + - * 1. Clear anodized
        2. Bronze anodized.
        3. White paint.
        4. Two coat 70 percent Kynar finish with color as selected from manufacturer range of finishes.
        5. Two coat 70 percent Kynar finish with custom color.
        6. Decoral wood grain finish with color as selected.
      1. Threshold Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete those not required.

* + - * 1. Clear anodized.
        2. Bronze anodized.

\*\* NOTE TO SPECIFIER \*\* Select from the following optional paragraphs as required and delete those not required.

* + - 1. Screen and Blind: Provide horizontal, retractable non-pleated insect and solar control screen and blind system with fingertip operation, load balancing and tensioning adjustment.
         1. Screen Mechanism:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Stand alone type.

Concealed within frame and integrated with door system.

* + - * 1. Operation:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Single function for blinds up to 12 feet (3.65 m).wide and 10 feet (3.04 m) tall.

Double function for blinds up to 24 feet (7.31 m) wide and 10 feet (3.04 m) tall.

Multi-function screen and blind system up to 24 feet (7.31 m) wide and 7 feet 6 inches (2.29 m) tall.

* + - * 1. Screen Mesh: Fiberglass/PVC mesh as selected from manufacturer's available selection for:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Insect protection.

Control heat gain or loss.

UV protection.

Projector screen.

* + - * 1. Finish:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Anodized finish in manufacturer's standard color

Anodized finish in custom color.

Wood veneer from manufacturer's standard selections.

* + 1. Aluminum Thermally Controlled Door:
       1. Frame and Panels: Complete single or double outswing or inswing door system including head, side jambs, thresholds and aluminum panels to sizes indicated on the Drawings.
          1. Panel: Thermally broken, extruded aluminum stile and rail panels with standard one lite.

Thickness 2-1/4 inches (57 mm).

Stile and Rail 2-15/16 inches (75 mm).

* + - * 1. Frame and Sill: Extruded aluminum.
        2. Weatherstripping: Weather seal inserted in frame and sill to provide perimeter seal, as well as between door panels. Color is dark bronze.
      1. Configuration:
         1. Complete swing door system including head, side jambs, sills and aluminum door panels.
         2. Sizing and Configuration Options: Provide frames and door panels to sizes and swings indicated on the Drawings.

Standard Frame Height:

6 feet 11-11/16 inches

7 feet 11-11/16 inches

Custom

Maximum Frame Height:

10 feet 4 inches

Standard Frame Width:

Single: 3 feet 2-1/16 inches

Double: 6 feet 4-1/8 inches

Custom

Maximum Frame Width:

3 feet 6-1/8 inches

6 feet 9-5/8 inches

* + - 1. Glass: All glass to comply with safety glazing requirements of ANSI Z97.1 and CPSC 16CFR 1201.
         1. Type: Cardinal dual glazed low-E glass.

Insulated glass with a 3/4 inch (19 mm) overall thickness.

* + - * 1. Size Tested: 37-3/4 inches by 82-3/8 inches.
        2. Glass:

\*\* NOTE TO SPECIFIER \*\* Select glass paragraph required and delete those not required.

Air Filled:

Clear-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.67, SHGC 0.53, VT 0.56

LowE180-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.56, SHGC 0.45, VT 0.54

LowE240-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.56, SHGC 0.20, VT 0.27

LowE272-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.56, SHGC 0.30, VT 0.49

LowE270-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.56, SHGC 0.27, VT 0.47

LowE366-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.55, SHGC 0.21, VT 0.44

Argon Filled:

Clear-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.65, SHGC 0.53, VT 0.56

LowE180-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.53, SHGC 0.45, VT 0.54

LowE240-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.53, SHGC 0.19, VT 0.27

LowE272-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.52, SHGC 0.30, VT 0.49

LowE270-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.52, SHGC 0.27, VT 0.47

LowE366-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.51, SHGC 0.21, VT 0.44

Solarban SB60-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.52, SHGC 0.29, VT 0.49

Solarban SB70-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.51, SHGC 0.21, VT 0.44

Argon Filled with room side LowE I89.

LowE272-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.49, SHGC 0.29, VT 0.48

LowE270-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.49, SHGC 0.26, VT 0.46

LowE240-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.49, SHGC 0.18, VT 0.26

LowE366-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.48, SHGC 0.20, VT 0.43

* + - * 1. Glazing: Silicone bedding on exterior surfaces and glazing seal on the interior of the panel.

\*\* NOTE TO SPECIFIER \*\* Select optional paragraph if required and delete if not required.

* + - * 1. Simulated Divided Lites: Sculpted profile as selected.
      1. Locking Hardware and Handles: Manufacturer's standard multi-point locking system.
         1. Handle Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete the one not required.

Brushed Satin Aluminum color.

Brushed Satin Bronze color.

* + - * 1. Provide panel handle height centered at 36 inches (914 mm) from bottom of panel.
      1. Hardware: Manufacturer's standard hardware integrated with engineered side jambs and threshold frame system.
         1. Hinges: Double leaf bearing hinges.

\*\* NOTE TO SPECIFIER \*\* Select the optional panic hardware if required. Delete if not required.

* + - * 1. Concealed panic hardware.
        2. Threshold:

\* NOTE TO SPECIFIER \*\* Select the threshold type required from the following paragraphs and delete those not required.

Standard Self-draining Weather Resistant Sill.

Flush sill.

Ramp sill.

ADA Compliant ramp sill.

\*\* NOTE TO SPECIFIER \*\* Select same finish or split finish from the following paragraphs as required and delete the one not required.

* + - 1. Aluminum Finish:
         1. Provide same finishes on inside and outside.

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete those not required.

Clear anodized

Bronze anodized.

White paint.

Two coat 70 percent Kynar finish with color as selected from manufacturer range of finishes.

Two coat 70 percent Kynar finish with custom color.

Decoral wood grain finish with color as selected.

\*\* NOTE TO SPECIFIER \*\* Insert interior and exterior finishes required.

Provide Split Finish: Interior \_\_\_\_\_\_\_\_\_; Exterior \_\_\_\_\_\_\_\_\_.

* + - 1. Threshold Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete those not required.

* + - * 1. Clear anodized.
        2. Bronze anodized.

\*\* NOTE TO SPECIFIER \*\* Select from the following optional paragraphs as required and delete those not required.

* + - 1. Screen and Blind: Provide horizontal, retractable non-pleated insect and solar control screen and blind system with fingertip operation, load balancing and tensioning adjustment.
         1. Screen Mechanism:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Stand alone type.

Concealed within frame and integrated with door system.

* + - * 1. Operation:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Single function for blinds up to 12 feet (3.65 m).wide and 10 feet (3.04 m) tall.

Double function for blinds up to 24 feet (7.31 m) wide and 10 feet (3.04 m) tall.

Multi-function screen and blind system up to 24 feet (7.31 m) wide and 7 feet 6 inches (2.29 m) tall.

* + - * 1. Screen Mesh: Fiberglass/PVC mesh as selected from manufacturer's available selection for:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Insect protection.

Control heat gain or loss.

UV protection.

Projector screen.

* + - * 1. Finish:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Anodized finish in manufacturer's standard color

Anodized finish in custom color.

Wood veneer from manufacturer's standard selections.

* + 1. Aluminum Wood Swing Door: Aluminum exterior and solid core wood construction and exposed wood interior frame.
       1. Frame and Panels: Complete Outswing Swing or Inswing door system including head, side jambs, thresholds and aluminum panels to sizes indicated on the Drawings.
          1. Panel: Extruded aluminum exterior solid wood core panels with standard one lite.

Thickness 2-1/4 inches (57 mm).

Stile and Rail 3-5/8 inches (92 mm).

* + - * 1. Frame and Sill: Extruded aluminum.
        2. Weatherstripping: Weather seal inserted in frame and sill to provide perimeter seal, as well as between door panels. Color is dark bronze.
        3. Interior Wood Species: Provide with matching solid wood glazing stops.

\*\* NOTE TO SPECIFIER \*\* Select species paragraph as required and delete the ones not required.

Vertical grain Douglas Fir.

Sapele mahogany.

Custom species from manufacturer standard species.

* + - * 1. Interior Wood Finish: Unfinished, ready for paint or stain.
      1. Configuration:
         1. Complete swing door system including head, side jambs, sills and aluminum door panels.
         2. Sizing and Configuration Options: Provide frames and door panels to sizes and swings indicated on the Drawings.

Standard Frame Height:

6 feet 11-11/16 inches

7 feet 11-11/16 inches

Custom

Maximum Frame Height:

10 feet 4 inches

Standard Frame Width:

Single: 3 feet 2-1/16 inches

Double: 6 feet 4-1/8 inches

Custom

Maximum Frame Width:

3 feet 6-1/8 inches

6 feet 9-5/8 inches

* + - 1. Glass: All glass to comply with safety glazing requirements of ANSI Z97.1 and CPSC 16CFR 1201.
         1. Type: Cardinal dual glazed low-E glass.

Insulated glass with a 3/4 inch (19 mm) overall thickness.

* + - * 1. Size Tested: 37-3/4 inches by 82-3/8 inches.
        2. Glass:

\*\* NOTE TO SPECIFIER \*\* Select glass paragraph required and delete those not required.

Air Filled:

Clear-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.56, SHGC 0.50, VT 0.52

LowE180-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.46, SHGC 0.42, VT 0.50

LowE240-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.46, SHGC 0.18, VT 0.25

LowE272-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.46, SHGC 0.28, VT 0.46

LowE270-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.46, SHGC 0.25, VT 0.44

LowE366-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.45, SHGC 0.20, VT 0.41

Argon Filled:

Clear-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.55, SHGC 0.50, VT 0.52

LowE180-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.43 SHGC 0.42, VT 0.50

LowE240-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.43, SHGC 0.18, VT 0.25

LowE272-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.42, SHGC 0.28, VT 0.46

LowE270-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.42, SHGC 0.25, VT 0.44

LowE366-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.42, SHGC 0.19, VT 0.41

Solarban SB60-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.42, SHGC 0.27, VT 0.46

Solarban SB70-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.42 SHGC 0.19, VT 0.41

Argon Filled with room side LowE I89.

LowE272-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.39, SHGC 0.27, VT 0.45

LowE270-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.39, SHGC 0.24, VT 0.43

LowE240-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.39, SHGC 0.17, VT 0.24

LowE366-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.39, SHGC 0.19, VT 0.40

Triple Pane Argon Filled with room side LowE I89.

LowE366-E180-I89-Argon: Overall Thickness 1-1/4 inch, U-Factor 0.33, SHGC 0.17, VT 0.35

LowE366-Clear-E366-Argon: Overall Thickness 1-1/4 inch, U-Factor 0.34, SHGC 0.17, VT 0.29

* + - * 1. Glazing: Silicone bedding on exterior surfaces and glazing seal on the interior of the panel.

\*\* NOTE TO SPECIFIER \*\* Select optional paragraph if required and delete if not required.

* + - * 1. Simulated Divided Lites: Sculpted profile as selected.
      1. Locking Hardware and Handles: Manufacturer's standard multi-point locking system.
         1. Handle Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete the one not required.

Brushed Satin Aluminum color.

Brushed Satin Bronze color.

* + - * 1. Provide panel handle height centered at 36 inches (914 mm) from bottom of panel.
      1. Hardware: Manufacturer's standard hardware integrated with engineered side jambs and threshold frame system.
         1. Hinges: Double leaf bearing hinges.

\*\* NOTE TO SPECIFIER \*\* Select the optional panic hardware if required. Delete if not required.

* + - * 1. Concealed panic hardware.
        2. Threshold:

\* NOTE TO SPECIFIER \*\* Select the threshold type required from the following paragraphs and delete those not required.

Standard Self-draining Weather Resistant Sill.

Flush sill.

Ramp sill.

ADA Compliant ramp sill.

* + - 1. Aluminum Finish: Provide same finishes on inside and outside.

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete those not required.

* + - * 1. White paint.
        2. Bronze paint.
        3. Two coat 70 percent Kynar finish with color as selected from manufacturer range of finishes.
        4. Two coat 70 percent Kynar finish with custom color.
        5. Decoral wood grain finish with color as selected.
      1. Threshold Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete those not required.

* + - * 1. Clear anodized.
        2. Bronze anodized.

\*\* NOTE TO SPECIFIER \*\* Select from the following optional paragraphs as required and delete those not required.

* + - 1. Screen and Blind: Provide horizontal, retractable non-pleated insect and solar control screen and blind system with fingertip operation, load balancing and tensioning adjustment.
         1. Screen Mechanism:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Stand alone type.

Concealed within frame and integrated with door system.

* + - * 1. Operation:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Single function for blinds up to 12 feet (3.65 m).wide and 10 feet (3.04 m) tall.

Double function for blinds up to 24 feet (7.31 m) wide and 10 feet (3.04 m) tall.

Multi-function screen and blind system up to 24 feet (7.31 m) wide and 7 feet 6 inches (2.29 m) tall.

* + - * 1. Screen Mesh: Fiberglass/PVC mesh as selected from manufacturer's available selection for:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Insect protection.

Control heat gain or loss.

UV protection.

Projector screen.

* + - * 1. Finish:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Anodized finish in manufacturer's standard color

Anodized finish in custom color.

Wood veneer from manufacturer's standard selections.

* + 1. Contemporary Clad Wood Outswing or Inswing Door: Aluminum clad solid core IvI wood construction and exposed wood interior frame.
       1. Frame and Panels: Complete Outswing Swing door system including head, side jambs, thresholds and wood panels to sizes indicated on the Drawings.
          1. Panel: Solid wood Ivl core panels with standard one lite.

Thickness 2-1/4 inches (57 mm).

Stile and Rail 2-15/16 inches (75 mm).

\*\* NOTE TO SPECIFIER \*\* Select bottom rail paragraph as required and delete if not required.

Bottom rail 7-1/2 inch (190.5 mm) wide bottom rail when panel height exceeds 96 inches (2438 mm).

10 inch (254 mm) ADA bottom rail.

* + - * 1. Frame and Sill: Extruded aluminum.
        2. Weatherstripping: Weather seal inserted in frame and sill to provide perimeter seal, as well as between door panels. Color is dark bronze.
        3. Interior Wood Species: Provide with matching solid wood glazing stops.

\*\* NOTE TO SPECIFIER \*\* Select species paragraph as required and delete the ones not required.

Vertical grain Douglas Fir.

Sapele mahogany.

Custom species from manufacturer standard species.

* + - * 1. Wood Finish: Unfinished, ready for paint or stain.
      1. Configuration:
         1. Complete swing door system including head, side jambs, sills and wood door panels.
         2. Sizing and Configuration Options: Provide frames and door panels to sizes and swings indicated on the Drawings.

Standard Frame Height:

6 feet 11-11/16 inches

7 feet 11-11/16 inches

Custom

Maximum Frame Height:

10 feet 4 inches

Standard Frame Width:

Single: 3 feet 2-1/16 inches

Double: 6 feet 1-3/16 inches

Custom

Maximum Frame Width:

Single: 3 feet 6-1/8 inches

Double: 6 feet 9-5/8 inches

* + - 1. Glass: All glass to comply with safety glazing requirements of ANSI Z97.1 and CPSC 16CFR 1201.
         1. Type: Cardinal dual glazed low-E glass.

Insulated glass with a 3/4 inch (19 mm) overall thickness.

* + - * 1. Size Tested: 37-3/4 inches by 82-3/8 inches.
        2. Glass:

\*\* NOTE TO SPECIFIER \*\* Select glass paragraph required and delete those not required.

Air Filled:

Clear-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.45, SHGC 0.49, VT 0.52

LowE180-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.35, SHGC 0.41, VT 0.50

LowE240-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.35, SHGC 0.17, VT 0.25

LowE272-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.34, SHGC 0.27, VT 0.46

LowE270-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.34, SHGC 0.24, VT 0.44

LowE366-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.34, SHGC 0.19, VT 0.41

Argon Filled:

Clear-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.43, SHGC 0.50, VT 0.52

LowE180-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.31 SHGC 0.41, VT 0.50

LowE240-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.31, SHGC 0.17, VT 0.25

LowE272-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.31, SHGC 0.27, VT 0.46

LowE270-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.31, SHGC 0.24, VT 0.44

LowE366-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.30, SHGC 0.18, VT 0.41

Solarban SB60-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.30, SHGC 0.27, VT 0.46

Solarban SB70-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.30 SHGC 0.18, VT 0.41

Argon Filled with room side LowE I89.

LowE272-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.27, SHGC 0.26, VT 0.45

LowE270-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.27, SHGC 0.23, VT 0.43

LowE240-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.28, SHGC 0.16, VT 0.24

LowE366-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.27, SHGC 0.18, VT 0.40

* + - * 1. Glazing: Silicone bedding on exterior surfaces and glazing seal on the interior of the panel.

\*\* NOTE TO SPECIFIER \*\* Select optional paragraph if required and delete if not required.

* + - * 1. Simulated Divided Lites: Sculpted profile as selected.
      1. Locking Hardware and Handles: Manufacturer's standard multi-point locking system.
         1. Handle Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete the one not required.

Brushed Satin Aluminum color.

Brushed Satin Bronze color.

* + - * 1. Provide panel handle height centered at 36 inches (914 mm) from bottom of panel.
      1. Hardware: Manufacturer's standard hardware integrated with engineered side jambs and threshold frame system.
         1. Hinges: Double leaf bearing hinges.

\*\* NOTE TO SPECIFIER \*\* Select the optional double panel panic hardware if required. Delete if not required.

* + - * 1. Concealed panic hardware.
        2. Threshold:

\* NOTE TO SPECIFIER \*\* Select the threshold type required from the following paragraphs and delete those not required.

Standard Self-draining Weather Resistant Sill.

Flush sill.

Ramp sill.

ADA Compliant ramp sill.

* + - 1. Aluminum Frame Outside Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete those not required.

* + - * 1. Clear anodized
        2. Bronze anodized.
        3. White paint.
        4. Bronze Paint.
        5. Two coat 70 percent Kynar finish with color as selected from manufacturer range of finishes.
        6. Two coat 70 percent Kynar finish with custom color.
        7. Decoral wood grain finish with color as selected.
      1. Aluminum Threshold Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete those not required.

* + - * 1. Clear anodized.
        2. Bronze anodized.

\*\* NOTE TO SPECIFIER \*\* Select from the following optional paragraphs as required and delete those not required.

* + - 1. Screen and Blind: Provide horizontal, retractable non-pleated insect and solar control screen and blind system with fingertip operation, load balancing and tensioning adjustment.
         1. Screen Mechanism:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Stand alone type.

Concealed within frame and integrated with door system.

* + - * 1. Operation:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Single function for blinds up to 12 feet (3.65 m).wide and 10 feet (3.04 m) tall.

Double function for blinds up to 24 feet (7.31 m) wide and 10 feet (3.04 m) tall.

Multi-function screen and blind system up to 24 feet (7.31 m) wide and 7 feet 6 inches (2.29 m) tall.

* + - * 1. Screen Mesh: Fiberglass/PVC mesh as selected from manufacturer's available selection for:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Insect protection.

Control heat gain or loss.

UV protection.

Projector screen.

* + - * 1. Finish:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Anodized finish in manufacturer's standard color

Anodized finish in custom color.

Wood veneer from manufacturer's standard selections.

* + 1. Wood Outswing or Inswing Door: Wood construction and exposed wood interior and exterior.
       1. Frame and Panels: Complete Outswing and Inswing door system including head, side jambs, thresholds and wood panels to sizes indicated on the Drawings.
          1. Panel: Solid wood panels with standard one lite.

Thickness 1-3/4 inches (44.5 mm).

Stile and Rail 3-5/8 inches (92 mm).

\*\* NOTE TO SPECIFIER \*\* Select bottom rail paragraph as required and delete if not required.

Bottom rail 7-1/2 inch (190.5 mm) wide bottom rail when panel height exceeds 96 inches (2438 mm).

10 inch (254 mm) ADA bottom rail.

* + - * 1. Frame and Sill: Extruded aluminum.
        2. Weatherstripping: Weather seal inserted in frame and sill to provide perimeter seal, as well as between door panels. Color is dark bronze.
        3. Wood Species: Provide with matching solid wood glazing stops.

\*\* NOTE TO SPECIFIER \*\* Select species paragraph as required and delete the ones not required.

Vertical grain Douglas Fir.

Sapele mahogany.

Custom species from manufacturer standard species.

* + - * 1. Wood Finish: Unfinished, ready for paint or stain.
      1. Configuration:
         1. Complete swing door system including head, side jambs, sills and wood door panels.
         2. Sizing and Configuration Options: Provide frames and door panels to sizes and swings indicated on the Drawings.

Standard Frame Height:

6 feet 11-11/16 inches

7 feet 11-11/16 inches

Custom

Maximum Frame Height:

10 feet 4 inches

Standard Frame Width:

Single: 3 feet 2-1/16 inches

Double: 6 feet 1-3/16 inches

Custom

Maximum Frame Width:

Single: 3 feet 6-1/8 inches

Double: 6 feet 9-5/8 inches

* + - 1. Glass: All glass to comply with safety glazing requirements of ANSI Z97.1 and CPSC 16CFR 1201.
         1. Type: Cardinal dual glazed low-E glass.

Insulated glass with a 3/4 inch (19 mm) overall thickness.

* + - * 1. Size Tested: 37-3/4 inches by 82-3/8 inches.
        2. Glass:

\*\* NOTE TO SPECIFIER \*\* Select glass paragraph required and delete those not required.

Air Filled:

Clear-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.45, SHGC 0.49, VT 0.52

LowE180-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.35, SHGC 0.41, VT 0.50

LowE240-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.35, SHGC 0.17, VT 0.25

LowE272-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.34, SHGC 0.27, VT 0.46

LowE270-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.34, SHGC 0.24, VT 0.44

LowE366-Air-Clear: Overall Thickness 3/4 inch, U-Factor 0.34, SHGC 0.19, VT 0.41

Argon Filled:

Clear-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.43, SHGC 0.50, VT 0.52

LowE180-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.31 SHGC 0.41, VT 0.50

LowE240-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.31, SHGC 0.17, VT 0.25

LowE272-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.31, SHGC 0.27, VT 0.46

LowE270-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.31, SHGC 0.24, VT 0.44

LowE366-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.30, SHGC 0.18, VT 0.41

Solarban SB60-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.30, SHGC 0.27, VT 0.46

Solarban SB70-Argon-Clear: Overall Thickness 3/4 inch, U-Factor 0.30 SHGC 0.18, VT 0.41

Argon Filled with room side LowE I89.

LowE272-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.27, SHGC 0.26, VT 0.45

LowE270-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.27, SHGC 0.23, VT 0.43

LowE240-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.28, SHGC 0.16, VT 0.24

LowE366-Argon-LowE I89: Overall Thickness 3/4 inch, U-Factor 0.27, SHGC 0.18, VT 0.40

* + - * 1. Glazing: Silicone bedding on exterior surfaces and glazing seal on the interior of the panel.

\*\* NOTE TO SPECIFIER \*\* Select optional paragraph if required and delete if not required.

* + - * 1. Simulated Divided Lites: Sculpted profile as selected.
      1. Locking Hardware and Handles: Manufacturer's standard multi-point locking system.
         1. Handle Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete the one not required.

Brushed Satin Aluminum color.

Brushed Satin Bronze color.

* + - * 1. Provide panel handle height centered at 36 inches (914 mm) from bottom of panel.
      1. Hardware: Manufacturer's standard hardware integrated with engineered side jambs and threshold frame system.
         1. Hinges: Double leaf bearing hinges.

\*\* NOTE TO SPECIFIER \*\* Select the optional double panel panic hardware if required. Delete if not required.

* + - * 1. Concealed panic hardware.
        2. Threshold:

\* NOTE TO SPECIFIER \*\* Select the threshold type required from the following paragraphs and delete those not required.

Standard Self-draining Weather Resistant Sill.

Flush sill.

Ramp sill.

ADA Compliant ramp sill.

* + - 1. Aluminum Threshold Finish:

\*\* NOTE TO SPECIFIER \*\* Select finish paragraph required and delete those not required.

* + - * 1. Clear anodized.
        2. Bronze anodized.

\*\* NOTE TO SPECIFIER \*\* Select from the following optional paragraphs as required and delete those not required.

* + - 1. Screen and Blind: Provide horizontal, retractable non-pleated insect and solar control screen and blind system with fingertip operation, load balancing and tensioning adjustment.
         1. Screen Mechanism:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Stand alone type.

Concealed within frame and integrated with door system.

* + - * 1. Operation:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Single function for blinds up to 12 feet (3.65 m).wide and 10 feet (3.04 m) tall.

Double function for blinds up to 24 feet (7.31 m) wide and 10 feet (3.04 m) tall.

Multi-function screen and blind system up to 24 feet (7.31 m) wide and 7 feet 6 inches (2.29 m) tall.

* + - * 1. Screen Mesh: Fiberglass/PVC mesh as selected from manufacturer's available selection for:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Insect protection.

Control heat gain or loss.

UV protection.

Projector screen.

* + - * 1. Finish:

\*\* NOTE TO SPECIFIER \*\* Select paragraph required and delete the one not required.

Anodized finish in manufacturer's standard color

Anodized finish in custom color.

Wood veneer from manufacturer's standard selections.

* 1. FABRICATI0N
     1. Sizes and Configurations: Fabricate to sizes and configurations indicated on the Drawings. Verify opening sizes by field measurement prior to completing fabrication.
     2. Verify opening direction.
     3. Fabricate with manufacturer's non-integral nail fin for use in conjunction with standard flashing, weather resistant barriers and compatible sealants.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. Verify that the maximum deflection of the header with the live load does not exceed the lesser of L/720 of the span and 1/4 inch. Structural support for lateral loads including both wind load and when the panels are stacked open) must be provided.
      3. Verify that dimensions of rough opening will fit the net frame dimensions of door system; verify that rough openings are level, plumb, and square, with no unevenness in the floor.
      4. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions.
      2. Properly flash and waterproof around the perimeter of the opening and frame. Adequate overhangs to prevent the effects of sheeting water from above are recommended.
      3. Provide adequate anchorage devices. Securely fit frame in place, level, straight, plumb and square. Install frame in proper elevation, plane and location, and in proper alignment with other work. Head section of frame must be installed with a 1/8 inch upward crown at the center of the opening.
      4. If necessary for sill recessed into finish floors, drill weep holes in the floor track and provide drain connectors to ensure water can escape.
      5. Ensure doors are adjusted for proper operation.
      6. For products requiring field finishing, field as specified in Section 09 90 00; seal and finish promptly after installation and no more than seven days and prior to exposure to weather.
      7. Install the screen system following the manufacturer's recommendations and installation instructions.
   4. PROTECTION
      1. Protect installed products until completion of project.
      2. Protect installed product from construction activities, particularly thresholds and floor channels.
      3. Touch-up, repair or replace damaged products before Substantial Completion.
   5. SCHEDULES

\*\* NOTE TO SPECIFIER \*\* Retain Paragraph below if required to suit project requirements. Identify products by name on the Drawings or use this paragraph to define the location of each type of material to be used. The following are some examples of schedule references. Edit as required to suit project or delete and identify products on the Drawings.

* + 1. :
    2. :

END OF SECTION