SECTION 08 53 13

VINYL WINDOWS AND SLIDING DOORS

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\*\* NOTE TO SPECIFIER \*\* AMSCO Windows, Vinyl windows and door products.  
This section is based on the products of AMSCO Windows, which is located at:  
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Salt Lake City, UT 0368  
Tel: 801-972-6441 (tel:8019726441)  
Fax: 801-974-0498  
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Web: http://www.amscowindows.com  
[ [Click Here](https://arcat.com/company/amsco-windows-46910) ] for additional information.  
Over 5 Years of Integrity and Innovation:  
More than a three quarters-century in business has taught us a thing or two about making the best vinyl and aluminum windows and doors you can put in your home. And thanks to a long history of employee ingenuity and adoption of evolving manufacturing technologies, AMSCO Windows(R) has been able to stay on the cutting edge of the industry without cutting corners. So, you can be sure that every window and door that bears the AMSCO name is the product of years of solid consumer and technological research, creative experimentation, and relentless testing.  
Evolving Products for an Evolving Customer:  
No one knows more about windows than AMSCO: styles, color and hardware options, energy efficiency, and much more. But what truly sets us apart from our competition is the value we place in customer feedback. Today's consumer is more informed, and more sophisticated, and demands the latest in innovation and design at a reasonable price. This means that we have to work that much harder to make sure every new construction and replacement window or door that leaves our facility meets our standards - and our customers.  
Environmental Friendliness:  
We support our community by preserving the environment - one of the core values at AMSCO Windows(R). We recycle many of the materials used in the manufacturing of our products and go to great lengths to keep the environment clean for future generations. All scrap generated in our production process is recycled and sent back to our supplier where it is used in other products. Glass is sent to a filter manufacturer and all paper/cardboard products are bailed and sent to a paper mill.  
By finding ways to support the community, it's our hope that we touch the lives of those around us.  
Made in the USA  
We at AMSCO take great pride in our products, which have been engineered to provide value, comfort, and peace of mind. We proudly manufacture our products in our facility located in Salt Lake City, Utah. In addition, all major raw material components of our products are also made in the United States of America.  
We are part of a team helping builders compete in the world market.

1. GENERAL
   1. SECTION INCLUDES

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

* + 1. Vinyl windows. (Studio) (Serenity) (Hampton)
    2. Glazing Options. (CozE) (CozE HV) (CozE Vantage) (CozE Max) (CozE Solar)
    3. Vinyl Doors. (Studio)
  1. RELATED SECTIONS

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

* + 1. Section 05 40 00 - Cold-Formed Metal Framing.
    2. Section 06 10 00 - Rough Carpentry.
    3. Section 06 20 00 - Finish Carpentry.
    4. Section 07 21 26 - Blown Insulation.
    5. Section 07 46 16 - Aluminum Siding.
    6. Section 07 62 00 - Sheet Metal Flashing and Trim.
    7. Section 07 90 00 - Joint Protection.
    8. Section 08 15 73 - Openings and Fenestration.
    9. Section 09 25 23 - Lime Based Plastering.
  1. REFERENCES

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

* + 1. American Architectural Manufacturing Association (AAMA):
       1. AAMA/WDMA/CSA 101/I.S.2/A440-05, A440-08, and A440-11 - NAFS - North American Fenestration Standard Specification for windows, doors, and skylights.
       2. AAMA 615-13 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Plastic Profiles.
       3. AAMA 701/702 - Voluntary Specification For Pile Weatherstripping And Replaceable Fenestration Weather seals.
       4. AAMA 902 - Voluntary Specification for Sash Balances.
    2. ASTM International (ASTM):
       1. ASTM A386 - Standard Practice for Providing High-Quality Zinc Coatings (Hot-Dip).
       2. ASTM E283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
       3. ASTM E547 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference.
       4. ASTM E2112 - Standard Practice for Installation of Exterior Windows, Doors, and Skylights.
       5. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.
       6. ASTM F588 - Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact.
       7. ASTM F842 - Standard Test Methods for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact.
    3. Consumer Products Safety Commission (CPSC):
       1. CPSC 16 CFR 1201 - Safety Standard for Architectural Glazing Materials.
    4. Energy Star Rating System:
       1. US EPA and US DoE.
    5. American National Standards Institute (ANSI):
       1. ANSI Z97.1 - For safety glazing materials used in buildings - safety performance specifications and methods of test.
  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. Manufacturer's head, jamb and sill details for each unit specified.
        4. Installation methods.
     3. Shop Drawings: For each unit type specified include elevations indicating size, glazing type, sections, details, hardware, relationship to adjacent construction, operational clearances and installation details showing multiple unit connections.

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

* + 1. Selection Samples: For each finished product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each interior and exterior finish specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and finish.
    3. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
    4. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for adjustment and maintenance of components.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications:
        1. Minimum ten years' experience manufacturing vinyl (PVC) windows.
        2. Capable of fabricating vinyl windows and doors that meet or exceed the performance requirements indicated.
        3. Capable of providing documentation of performance characteristics by inclusion in lists and by labels, test reports, and calculations.
     2. Installer Qualifications: Installer with a minimum of 2 years' experience on projects of a similar size and scope with similar installation conditions.
     3. Testing: Provide window units independently tested and found to be in compliance with AAMA/WDMA/CSA 101/I.S.2/A440-05, A440-08, or A440-11 performance standards.
     4. Code Compliance: Provide windows that are labeled in compliance with the jurisdiction having authority in the location of the project.

\*\* 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 the remaining work until workmanship, color, and sheen are approved by Architect.
       3. Refinish the mock-up area as required to produce acceptable work.
       4. Accepted mock-ups shall be a comparison standard for remaining Work.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Deliver products in manufacturer's original unopened packaging, to be left intact until ready for installation.
     2. Store products off the ground, out of direct sunlight in manufacturer's original, unopened packaging, with labels clearly identifying product name and manufacturer until ready for installation. Protect from damage.
  2. SEQUENCING
     1. Ensure that information required for installation of products in 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. Field Measurements: Verify rough openings by field measurements before fabrication and indicate measurements on Shop Drawings.
     2. 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. Manufacturer's Limited Warranty that all windows will be free from defects for 10 years.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: AMSCO Windows, which is located at:1880 S. 1045 W., P. O. Box 25368Salt Lake City, UT 84125-0368Toll Free Tel: 800-748-466Tel: 801-972-6441 Fax: 801-974-0498Email: [request info (architecturalgroup@amscowindows.com)](https://arcat.com/rfi?action=email&company=AMSCO%252BWindows&message=RE%253A%2520Spec%2520Question%2520(08531amo)%253A%2520&coid=46910&spec=08531amo&rep=&fax=801-974-0498);Web: <https://www.amscowindows.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 the provisions of Section 01 60 00 - Product Requirements.
  1. PERFORMANCE AND DESIGN REQUIREMENTS
     1. Products specified are to meet or exceed the requirements of the American Architectural Manufacturers Association (AAMA), the National Fenestration Rating Council (NFRC), and carry the Energy STAR label.
  2. VINYL WINDOWS - STUDIO SERIES
     1. Type: AMSCO Windows Studio Series.

\*\* NOTE TO SPECIFIER \*\* Delete Window Types not required. Delete the sliding patio door if not required.

* + - 1. Window Type: Single Hung.
         1. Performance Requirements:

Air Infiltration: Meets ASTM E283.

Water Resistance: Meets ASTM E547.

Structural Rating, AAMA/WDMA/CSA 101/I.S.2/A440-05: LC-PG35.

Maximum Sizes:

Dimensions: 48 inches by 96 inches (1219 x 2438 mm).

Dimensions: 48 inches by 84 inches (1219 x 2134 mm).

Dimensions: 44 inches by 75 inches (1118 x 1905 mm).

Forced Entry Performance: Meets ASTM F588.

* + - * 1. Attributes:

Standard side load single hung.

Integral finger pulls on the top and bottom of the sash.

Block and tackle balance system.

Equal site line option.

Available with an integral nail fin or retrofit flush fin.

* + - 1. Window Type: Horizontal Sliding, Single Vent:
         1. Performance Requirements:

Air Infiltration per ASTM E 283: Maximum 0.05 cfm/sq ft.

Water Resistance per ASTM E 547: No leakage when tested at 5.25 psf.

Structural Rating, AAMA/WDMA/CSA 101/I.S.2/A440-05: LC-PG25/ LC-PG25 / LC-PG35.

Maximum Sizes:

Dimensions: 96 x 60 inches (2438 x 1524 mm).

Dimensions: 72 x 72 inches (1829 x 1829 mm).

Dimensions: 72 x 60 inches (1829 x 1524).

Forced Entry Performance: Meets ASTM F588.

* + - * 1. Attributes:

Heavy-duty nylon rollers with a stainless steel axle.

Integral finger pulls on vent.

Available with an integral nail fin or retrofit flush fin.

* + - 1. Window Type: Horizontal Sliding, Double Vent:
         1. Performance Requirements:

Air Infiltration per ASTM E 283 Maximum 0.05 cfm/sq ft.

Water Resistance per ASTM E 547: No leakage when tested at 4.5 psf

Structural Rating, AAMA/WDMA/CSA 101/I.S2/A440-05: R-PG15/LC-PG20.

Maximum Sizes:

Dimensions: 144 x 72 inches (3658 x 1829 mm)

Dimensions: 108 x 72 inches (2743 x 1829 mm)

Forced Entry Performance: Meets ASTM F588.

* + - * 1. Attributes:

Heavy-duty nylon rollers with a stainless steel axle.

Integral finger pulls on vent.

Available with an integral nail fin or retrofit flush fin.

* + - 1. Window Type: Fixed Sash and Frame Picture Window, Direct Set:
         1. Performance Requirements:

Air Infiltration per ASTM E 283: Maximum 0.14 cfm/sq ft.

Water Resistance per ASTM E 547: No leakage when tested at 5.25 psf.

Structural Rating, AAMA/WDMA/CSA 101/I.S.2/A440-05: CW-PG35.

Test Size: 120 x 72 inches (3048 x 1829 mm).

Forced Entry Performance: Meets ASTM F588.

* + - * 1. Attributes:

Direct set.

Equal site line options.

Available with an integral nail fin or retrofit flush fin.

* + - 1. Window Type: Specialty:
         1. Performance Requirements:

Air Infiltration: Meets ASTM E283.

Water Resistance: Meets ASTM E547.

Structural Rating, AAMA/WDMA/CSA 101/I.S.2/A440-05.

Forced Entry Performance: Meets ASTM F588.

\*\* NOTE TO SPECIFIER \*\* Delete shape options not required.

* + - * 1. Shape :Round Tops.
        2. Shape :Arch Tops.
        3. Shape :Octagons.
        4. Shape :Full Circles.
        5. Shape :Half Circles.
        6. Shape :Quarter Circles.
        7. Shape :Quarter Angles.
        8. Shape :Trapezoids.
        9. Shape :Quarter Rectangles.
        10. Shape :Eyebrows.
    1. Construction:
       1. Main Frame: Frame depth 3 inches (76 mm). PVC extrusions, multi-chambered, fusion-welded construction, mitered corners and exterior beveled design.
       2. Interlocking Panels: Interlocking panels and high-performance weatherstripping.
       3. Fixed/Deadlite Sash: PVC extrusions, fusion-welded construction, mitered corners, and exterior beveled design permanently assembled/secured into main frame.
       4. Vent Sash: PVC extrusions, fusion-welded construction, mitered corners, extruded vinyl finger pull rail on leading jamb or sill side of vent sash.

\*\* NOTE TO SPECIFIER \*\* Delete frame style option not required.

* + - 1. Frame Style: Nail Fin 3 inch frame depth.
         1. Integral 1-3/8 (35 mm) nail fin setback for new construction applications
         2. Integral 1 inch (25 mm) nail fin setback with stucco key for new construction.
      2. Frame Style: 3 inch frame depth.
         1. Integral 1 1/2 inch dual wall retrofit flush fin on the exterior of the frame for retrofit application without removing the old window frame.
         2. This method does not damage or interrupt the existing water barrier and can be used in stucco, brick, and siding applications.
      3. Frame Style: Continuous frame or T-bar.
         1. Allows joining.
      4. Glazing System: Secured to sash frame using glazing tape and snap-in glazing bead that is color matched to the exterior window finish. Factory exterior glazed except where field glazing is required due to large window unit dimensions. Units shall be re-glazeable without dismantling sash framing.
      5. Window Screens:
         1. Mesh: 18 x 16 fiberglass mesh secured with continuous vinyl gasket.
         2. Frames: Roll form aluminum channel type.

\*\* NOTE TO SPECIFIER \*\* Delete finish options and color options not required.

* + 1. Finish: Integral vinyl.
       1. Color: White.
       2. Color: Taupe.
    2. Finish: Capstock.
       1. Color: Interior White. Exterior Bronze.
       2. Color: Interior White. Exterior Black.
       3. Color: Interior Black. Exterior Black.
    3. Finish: Painted.
       1. Color: Black.
       2. Color: Cream.
       3. Color: Silver.
       4. Color: Gray.
       5. Color: Clay.
       6. Color: Green.
       7. Color: Red.
       8. Color: Brown.
       9. Color: Dark Brown.
       10. Color: Bronze.
       11. Color: Forest Green.
    4. Glass: 3/4 inch insulated with warm edge spacers.

\*\* NOTE TO SPECIFIER \*\* AMSCO is a member of the National Fenestration Rating Council, the American Architectural Manufacturers Association and has earned the right to carry the Energy STAR Contact the manufacturer for the performance data for the glass type available. Delete the glass product options not required.

* + - 1. Type: COzE Low-E Glass.
         1. Glass Product: Cardinal 270. Insulating value is over 35 percent more efficient than clear insulated glass.
         2. Glass Product: Cardinal 340.Triple-layer silver coating. Glare control and tinted for aesthetic appearance.
         3. Glass Product: Cardinal 366. Triple-layer silver coating. Blocks 95 percent of ultraviolet radiation.
         4. Glass Product: Vantage. Hard Coat Low E technology with Low E on two surfaces.
         5. Glass Product: CozE Solar. Passive solar control technology.

\*\* NOTE TO SPECIFIER \*\* Delete glass pattern options not required or delete all if patterned glass is not required.

* + - 1. Glass Pattern: Narrow Reed.
      2. Glass Pattern: Obscure.
      3. Glass Pattern: Glue Chip.
      4. Glass Pattern: Rain.
      5. Glass Pattern: Sand Blast.
      6. Glass Pattern: Delta Frost.

\*\* NOTE TO SPECIFIER \*\* The following paragraph is optional. Delete if not required.

* + - 1. Argon Fill: Provide insulated glass with argon gas fill.
    1. Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete the following hardware listed that is not required.

* + - 1. Window Sash Locks: Hardware color to match the interior vinyl color.

\*\* NOTE TO SPECIFIER \*\* Delete the sash lock option not required. Cam locks are standard.

* + - * 1. Cam Locks: Anchored with screws driven through the sash rail and into reinforcing bar.
        2. Positive Action lock: Anchored with screws driven through the sash rail and into reinforcing bar.
      1. Weatherstripping: Meet AAMA 701/702.
    1. Grids:

\*\* NOTE TO SPECIFIER \*\* Delete grid type option not required.

* + - 1. Type: Surface-Applied Vinyl. Simulated divided lite grids.
         1. SLD 1 inch (25 mm). Surface applied, with aluminum, bronze, between-the-glass shadow bar grid, color matched to frame.
      2. Type: Airspace. Aluminum. Sealed between the glass, color-matched to frame. Two-tone grids color-matched to SuperCapSR color cap vinyl frame colors.
         1. Flat: 5/8 inch (16 mm).
         2. Flat: 13/16 inch (21 mm).
         3. Sculptured: 3/4 inch (19 mm).
  1. VINYL WINDOWS - SERENITY SERIES
     1. Type: AMSCO Windows Serenity Series Sound Control Windows.

\*\* NOTE TO SPECIFIER \*\* Select the unit types required from the following paragraphs and delete the units not required.

* + - 1. Window Type: Single Hung:
         1. Performance Requirements:

Air Infiltration per ASTM E283: 0.06 cfm/ft2.

Water Resistance: Meets ASTM E547.

Structural Rating: AAMA/WDMA/CSA 101/I.S.2/A440-05: LC35.

Maximum Size: 48 x 84 inches (1219 x 2134 mm).

Minimum Egress: 30 x 72 inches (762 x 1829 mm).

Forced Entry Performance: Meets ASTM F588.

STC: 40 to 47 based on glazing specified.

Exterior Wall Rating: 37 to 47 based on glazing specified.

Outdoor/Indoor Transmission Class: 27 to 35 based on glazing specified.

* + - * 1. Attributes:

Side load single hung.

Integral finger pulls on the bottom of the sash.

Block and tackle balance system.

* + - 1. Window Type: Horizontal Sliding, Single Vent:
         1. Performance Requirements:

Air Infiltration, ASTM E 283: Maximum 0.08/0.04 cfm/ft2.

Water Resistance: Meets ASTM E547.

Structural Rating: AAMA/WDMA/CSA 101/I.S.2/A440-05: LC-PG25/R20. Maximum Size: 72 x 72 inches (1829 x 1829 mm).

Minimum Egress: 54 x 42 inches (1372 x 1067 mm).

Forced Entry Performance: Meets ASTM F588.

STC: 40 to 47 based on glazing specified.

Exterior Wall Rating: 37 to 47 based on glazing specified.

Outdoor/Indoor Transmission Class: 27 to 35 based on glazing specified.

* + - * 1. Attributes:

Heavy-duty nylon rollers with a stainless steel axle.

Integral finger pulls on vent.

* + - 1. Window Type: Horizontal Sliding, Double Vent:
         1. Performance Requirements:

Water Resistance: Meets ASTM E 547.

Structural Rating: AAMA/WDMA/CSA 101/I.S.2/A440-05: LC-PG25/R20.

Maximum Size: 108 x 72 inches (2743 x 1829 mm).

Minimum Egress: 55 x 72 inches (1397 x 1829 mm).

Forced Entry Performance: Meets ASTM F588.

STC: 40 to 47 based on glazing specified.

Exterior Wall Rating: 37 to 47 based on glazing specified.

Outdoor/Indoor Transmission Class: 27-35 based on glazing specified.

* + - * 1. Attributes:

Heavy-duty nylon rollers with a stainless steel axle.

Integral finger pulls on vent.

* + - 1. Window Type: Fixed Sash and Frame Picture Window, Direct Set:
         1. Performance Requirements:

Air Infiltration, ASTM E 283: Less than 0.01 cfm/sq ft.

Water Resistance: Meets ASTM E 547.

Structural Rating: AAMA/WDMA/CSA 101/I.S.2/A440-05: C30.

Test Size: 96 x 72 inches (2438 x 1829 mm).

Forced Entry Performance: Meets ASTM F588.

STC: 40 to 47 based on glazing specified.

Exterior Wall Rating: 37 to 47 based on glazing specified.

Outdoor/Indoor Transmission Class: 27 to 35 based on glazing specified.

* + - * 1. Attributes:

Direct set.

Equal site line options

* + - 1. Window Type: Casement and Casement Picture Window:
         1. Performance Requirements:

Air Infiltration, ASTM E 283: Less than .02 cfm/sq ft.

Water Resistance: Meets ASTM E 547.

Structural Rating: AAMA/WDMA/CSA 101/I.S.2/A440-08: CW-PG30.

Test Size: 36 x 72 inches (914 x 1829 mm).

Forced Entry Performance: Meets ASTM F588.

STC 40 to 42 based on glazing specified.

Exterior Wall Rating: 39-43 based on glazing specified.

Outdoor/Indoor Transmission Class: 30-35 based on glazing specified.

* + - * 1. Attributes:

Centered sash for ease of cleaning; excludes egress hardware.

Unison lock with concealed hardware.

Standard folding handle.

Standard color-matched or optional plated hardware.

* + - 1. Window Type: Awning and Awning Picture Window.
         1. Performance Requirements:

Air Infiltration, ASTM E 283: Less than .05 cfm/sq ft.

Water Resistance: Meets ASTM E 547.

Structural Rating: AAMA/WDMA/CSA 101/I.S.2/440-08: CW-PG30.

Test Size: 60 x 36 inches (1524 x 914 mm).

Forced Entry Performance: Meets ASTM F588.

STC: 40-42 based on glazing specified.

Exterior Wall Rating: 39-43 based on glazing specified.

Outdoor/Indoor Transmission Class: 30-35 based on glazing specified.

* + - * 1. Attributes:

Scissor-style hardware for smooth operation.

Two locks with concealed hardware.

Standard folding handle.

Standard color-matched or optional plated hardware.

* + 1. Construction:
       1. Main Frame Depth: 5-5/8 inches (143 mm). PVC extrusions, multi-chambered, fusion-welded construction, mitered corners and exterior beveled design.
       2. Interlocking Panels: Interlocking panels and high-performance weatherstripping.
       3. Fixed/Deadlite Sash: PVC extrusions, fusion-welded construction, mitered corners, and exterior beveled design permanently assembled/secured into main frame.
       4. Vent Sash: PVC extrusions, fusion-welded construction, mitered corners, extruded vinyl finger pull rail on leading jamb or sill side of vent sash.
       5. Frame Style: Nail Fin 5-5/8 inch (143 mm) frame depth with an integral 1-3/8 inch (35 mm) nail fin setback for new construction applications.
       6. Glazing System: Secured to sash frame using glazing tape and snap-in glazing bead; color matched to exterior window finish. Factory exterior glazed except where field glazing is required due to large Window Type dimensions. Units shall be re-glazeable without dismantling sash framing.

\*\* NOTE TO SPECIFIER \*\* Delete screens option if not required.

* + - 1. Screens: Window.
         1. Mesh: 18 x 16 fiberglass mesh secured with continuous vinyl gasket.
         2. Frames: Roll form aluminum channel type.

\*\* NOTE TO SPECIFIER \*\* Delete finish options and color options not required.

* + 1. Finish: Integral Vinyl.
       1. Color: White.
       2. Color: Taupe.
    2. Finish: Painted.
       1. Color: Black.
       2. Color: Cream.
       3. Color: Silver.
       4. Color: Gray.
       5. Color: Clay.
       6. Color: Green.
       7. Color: Red.
       8. Color: Brown.
       9. Color: Dark Brown.
       10. Color: Bronze.
       11. Color: Forest Green.
    3. Glass: 3/4 inch insulated with warm edge spacers.

\*\* NOTE TO SPECIFIER \*\* AMSCO is a member of both the National Fenestration Rating Council and the American Architectural Manufacturers Association and has earned the right to carry the Energy STAR Contact the manufacturer for the performance data for the glass type available. Delete the glass product options not required.

* + - 1. Type: COzE Low-E Glass.
         1. Glass Product: Cardinal 270. Insulating value is over 35 percent more efficient than clear insulated glass.
         2. Glass Product: Cardinal 340. Triple-layer silver coating. Glare control and tinted for aesthetic appearance.
         3. Glass Product: Cardinal 366. Triple-layer silver coating. Blocks 95 percent of ultraviolet radiation.
         4. Glass Product: Vantage. Hard Coat Low E technology with Low E on two surfaces.
         5. Glass Product: CozE Solar. Passive solar control technology.

\*\* NOTE TO SPECIFIER \*\* Delete glass pattern options not required or delete all if patterned glass is not required.

* + - 1. Glass Pattern: Narrow Reed.
      2. Glass Pattern: Obscure.
      3. Glass Pattern: Glue Chip.
      4. Glass Pattern: Rain.
      5. Glass Pattern: Sand Blast.
      6. Glass Pattern: Delta Frost.

\*\* NOTE TO SPECIFIER \*\* The following two paragraphs are optional. Delete options not required..

* + - 1. Argon Fill: Provide insulated glass with argon gas fill.
    1. Hardware:
       1. Window Sash Locks: Hardware color to match the interior vinyl color.
          1. Positive action lock system hardware of aluminum.
       2. Weatherstripping: To AAMA 701/702.

\*\* NOTE TO SPECIFIER \*\* Delete airspace grids if option not required.

* + 1. Airspace Grids: Aluminum 5/8 inch (16 mm) flat grids, color-matched to frame.
  1. VINYL WINDOWS - HAMPTON SERIES
     1. Type: AMSCO Windows Hampton Series.

\*\* NOTE TO SPECIFIER \*\* Delete Window Types not required. Delete sliding patio door if not required.

* + - 1. Window Type: Single Hung.
         1. Performance Requirements: Data is based on dual-pane 3/4, 1, and 1-1/4 inch (19, 25, and 32 mm) insulated glass, LowE, gridless, intercept, super spacer, cardinal spacer with air, and argon fill. Additional options may affect performance values, including values that may be outside of the ranges shown above. Contact an authorized AMSCO dealer for actual values of units. Values are certified through FGIA or NFRC.

U-Value: 0.46 to 0.19.

SHGC: 0.61 to 0.13.

VT: 0.54 to 0.47.

STC: 24 to 36.

Structural Rating: LC-PG35-45.

* + - * 1. Attributes:

Side-load single-hung.

Integral finger pulls on the top and bottom of the sash.

Block-and-tackle balance system.

Available with an integral nail fin or retrofit flush fin.

* + - 1. Window Type: Casement.
         1. Performance Requirements: Data is based on dual-pane 3/4, 1, and 1-1/4 inch (19, 25, and 32 mm) insulated glass, LowE, gridless, intercept, super spacer, cardinal spacer with air, and argon fill. Additional options may affect performance values, including values that may be outside of the ranges shown above. Contact an authorized AMSCO dealer for actual values of units. Values are certified through FGIA or NFRC.

U-Value: 0.42 to 0.17.

SHGC: 0.5 to 0.12.

VT: 0.46 to 0.39.

STC: 28 to 37.

Structural Rating: LC-PG25-50.

* + - * 1. Attributes:

Centered sash for ease of cleaning (excludes egress hardware).

Unison lock with concealed hardware.

Folding handle.

Color-matched or optional plated hardware.

Available with an integral nail fin or retrofit flush fin.

* + - 1. Window Type: Horizontal Slider.
         1. Performance Requirements: Data is based on dual-pane 3/4, 1, and 1-1/4 inch (19, 25, and 32 mm) insulated glass, LowE, gridless, intercept, super spacer, cardinal spacer with air, and argon fill. Additional options may affect performance values, including values that may be outside of the ranges shown above. Contact an authorized AMSCO dealer for actual values of units. Values are certified through FGIA or NFRC.

U-Value: 0.46 to 0.19.

SHGC: 0.61 to 0.13.

VT: 0.54 to 0.29.

STC: 27 to 36.

Structural Rating: LC-PG30-45.

* + - * 1. Attributes:

Heavy-duty nylon rollers with a stainless steel axle.

Integral finger pulls on vent.

Available with an integral nail fin or retrofit flush fin.

* + - 1. Window Type: Double Vent Slider.
         1. Performance Requirements: Data is based on dual-pane 3/4, 1, and 1-1/4 inch (19, 25, and 32 mm) insulated glass, LowE, gridless, intercept, super spacer, cardinal spacer with air, and argon fill. Additional options may affect performance values, including values that may be outside of the ranges shown above. Contact an authorized AMSCO dealer for actual values of units. Values are certified through FGIA or NFRC.

U-Value: 0.46 to 0.19.

SHGC: 0.61 to 0.13.

VT: 0.54 to 0.29.

STC: 27 to 36.

Structural Rating: LC-PG30-PG40.

* + - * 1. Attributes:

Heavy-duty nylon rollers with stainless steel axle.

Integral finger pulls on vents.

Available with an integral nail fin or retrofit flush fin.

* + - 1. Window Type: Awning.
         1. Performance Requirements: Data is based on dual-pane 3/4, 1, and 1-1/4 inch (19, 25, and 32 mm) insulated glass, LowE, gridless, intercept, super spacer, cardinal spacer with air, and argon fill. Additional options may affect performance values, including values that may be outside of the ranges shown above. Contact an authorized AMSCO dealer for actual values of units. Values are certified through FGIA or NFRC.

U-Value: 0.42 to 0.17.

SHGC: 0.5 to 0.12.

VT: 0.46 to 0.24.

STC: 28 to 37.

Structural Rating: LC-PG30-50.

* + - * 1. Attributes:

Heavy-duty hardware for smooth operation.

Two locks with concealed hardware.

Folding handle.

Color-matched or optional plated hardware.

Available with an integral nail fin or retrofit flush fin.

* + - 1. Window Type: Picture / Fixed.
         1. Performance Requirements: Data is based on dual-pane 3/4, 1, and 1-1/4 inch (19, 25, and 32 mm) insulated glass, LowE, gridless, intercept, super spacer, cardinal spacer with air, and argon fill. Additional options may affect performance values, including values that may be outside of the ranges shown above. Contact an authorized AMSCO dealer for actual values of units. Values are certified through FGIA or NFRC.

U-Value: 0.47 to 0.14.

SHGC: 0.67 to 0.12.

VT: 0.57 to 0.49.

STC: 28 to 37.

Structural Rating: LC-PG25 - CW-PG 50.

* + - * 1. Attributes:

Direct set, allows for the maximum glass viewing area available.

Units available in a retrofit flush fin application.

Equal site line options.

Available with an integral nail fin or retrofit flush fin.

* + - 1. Window Type: Specialty Shapes.
         1. Performance Requirements: Data is based on dual-pane 3/4, 1, and 1-1/4 inch (19, 25, and 32 mm) insulated glass, LowE, gridless, intercept, super spacer, cardinal spacer with air, and argon fill. Additional options may affect performance values, including values that may be outside of the ranges shown above. Contact an authorized AMSCO dealer for actual values of units. Values are certified through FGIA or NFRC.

U-Value: 0.47 to 0.14.

SHGC: 0.67 to 0.16.

VT: 0.57 to 0.49.

STC: 28 to 36.

Structural Rating: LC-PG25 - CW-PG 50.

* + - * 1. Shapes: Round tops.
        2. Shapes: Arch tops.
        3. Shapes: Octagons.
        4. Shapes: Full circles.
        5. Shapes: Half circles.
        6. Shapes: Quarter circles.
        7. Shapes: Quarter angles.
        8. Shapes: Trapezoids.
        9. Shapes: Quarter rectangles.
        10. Shapes: Eyebrows.
      1. Sliding Patio Doors:
         1. Performance Requirements:
         2. Attributes:

2-panel doors (OX or XO).

3-panel doors (OOX, XOO or OXO).

4-panel doors (OXXO).

Up to 16 foot wide and 8 foot-tall configurations.

Available in 10 foot-wide 2-panel configuration (OX or XO).

Standard nail fin or optional retrofit flush fin.

Stucco key option.

Available with an integral nail fin or retrofit flush fin.

* + 1. Construction:
       1. Main Frame: Frame depth 3-1/2 inches (89 mm). PVC extrusions, multi-chambered, fusion-welded construction, mitered corners and exterior beveled design.
       2. Interlocking Panels: Interlocking panels and high-performance weatherstripping.
       3. Fixed/Deadlite Sash: PVC extrusions, fusion-welded construction, mitered corners and exterior beveled design permanently assembled/secured into main frame.
       4. Vent Sash: PVC extrusions, fusion-welded construction, mitered corners, extruded vinyl finger pull rail on leading jamb or sill side of vent sash.

\*\* NOTE TO SPECIFIER \*\* Delete the frame style not required.

* + - 1. Frame Style: Nail Fin 3-1/2 inch (89 mm) frame depth.
         1. Integral 1-3/8 inch nail fin setback for new construction applications.
         2. Integral stucco key in a 1 inch (25 mm) nail fin setback.
         3. This method helps to secure the window in place during installation and works together with weather-resistant barriers to block the infiltration of wind and water.
      2. Frame Style: Retrofit-Flush Fin 3-1/2 inch (89 mm) frame depth.
         1. Integral 1-1/2 inch dual wall retrofit flush fin on the exterior of the frame for retrofit application without removing the old window frame.
         2. This method does not damage or interrupt the existing water barrier and can be used in stucco, brick, and siding applications.
      3. Frame Style: Continuous frame or T-bar.
         1. Allows joining more than one window in a single frame, thereby increasing structural integrity. A simulated T-bar SDL is available.
      4. Glazing System: Secured to sash frame using glazing tape and snap-in glazing bead; color matched to exterior window finish. Factory exterior glazed except where field glazing is required due to large window unit dimensions. Units shall be re-glazeable without dismantling sash framing.

\*\* NOTE TO SPECIFIER \*\* Delete screens options not required. Delete both if screens are not required.

* + - 1. Screens: Window.
         1. Mesh: 18 x 16 fiberglass mesh secured with continuous vinyl gasket.
         2. Frames: Roll form aluminum channel type.
      2. Screens: Patio Door.
         1. Mesh: 18 x 16 fiberglass mesh secured with continuous vinyl gasket.
         2. Frames: Extruded aluminum channel type.

\*\* NOTE TO SPECIFIER \*\* Delete finish options and color options not required.

* + 1. Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete the following hardware listed that is not required.

* + - 1. Window Sash Locks: Hardware color to match the interior vinyl color.
         1. Cam Locks: Anchored with screws driven through the sash rail and into reinforcing bar.
      2. Sliding Patio Door Handle: Sliding patio door system hardware with 2-point mortise latch.
         1. Handle color to match the vinyl color.
      3. Vent Rollers: Nylon; adjustable tandem type.
      4. Weatherstripping: Meet AAMA 701/702.
    1. Grids:

\*\* NOTE TO SPECIFIER \*\* Delete grid type option not required.

* + - 1. Type: Surface-Applied Vinyl. Simulated divided lite grids.
         1. SLD 1 inch. Surface applied, with aluminum, bronze, between-the-glass shadow bar grid, color matched to frame.
         2. SLD 3-1/8 inch. Surface applied, with aluminum, bronze, between-the-glass shadow bar grid, color matched to frame.
         3. SDL 2-1/4 inch. Surface applied, with aluminum, bronze, between-the-glass shadow bar grid, color matched to frame.
      2. Type: Airspace. Aluminum. Sealed between the glass, color-matched to frame. Two-tone grids color-matched to SuperCapSR color cap vinyl frame colors.
         1. Flat: 5/8 inch (16 mm).
         2. Flat: 13/16 inch (21 mm).
         3. Sculptured: 3/4 inch (19 mm).
         4. Sculptured: 1 inch (25 mm).

\*\* NOTE TO SPECIFIER \*\* Delete finish options and color options not required.

* + 1. Finish: Integral vinyl.
       1. Color: White.
       2. Color: Taupe.
    2. Finish: Capstock.
       1. Color: Interior: White. Exterior: Bronze.
       2. Color: Interior: White. Exterior: Black.
    3. Finish: Painted.
       1. Color: Black.
       2. Color: Cream.
       3. Color: Silver.
       4. Color: Gray.
       5. Color: Clay.
       6. Color: Green.
       7. Color: Red.
       8. Color: Brown.
       9. Color: Dark Brown.
       10. Color: Bronze.
       11. Color: Forest Green.
    4. Glass: 3/4 inch, 1 inch, 1-1/4 inch dual insulated and optional 1-1/4 inch triple pane all with Super Spacers to reduce thermal transfer and condensation.

\*\* NOTE TO SPECIFIER \*\* AMSCO is a member of the National Fenestration Rating Council, the American Architectural Manufacturers Association and has earned the right to carry the Energy STAR Contact the manufacturer for the performance data for the glass type available. Delete the glass product options not required.

* + - 1. Type: COzE Low-E Glass.
         1. Glass Product: Cardinal 270. Insulating value is over 35 percent more efficient than clear insulated glass.
         2. Glass Product: Cardinal 340. Triple-layer silver coating. Glare control and tinted for aesthetic appearance.
         3. Glass Product: Cardinal 366. Triple-layer silver coating. Blocks 95 percent of ultraviolet radiation.
         4. Glass Product: Vantage. Hard Coat Low E technology with Low E on two surfaces.
         5. Glass Product: CozE Solar. Passive solar control technology.

\*\* NOTE TO SPECIFIER \*\* Delete glass pattern options not required or delete all if patterned glass is not required.

* + - 1. Glass Pattern: Narrow Reed.
      2. Glass Pattern: Obscure.
      3. Glass Pattern: Glue Chip.
      4. Glass Pattern: Rain.
      5. Glass Pattern: Sand blast.
      6. Glass Pattern: Delta Frost.

\*\* NOTE TO SPECIFIER \*\* The following two paragraphs are optional. Delete options not required..

* + - 1. Argon Fill: Provide insulated glass with argon gas fill.
  1. MATERIALS - GENERAL
     1. Comply with requirement of AAMA/WDMA/CSA 101/I.S.2/A440-05 specifications for rigid (Poly Vinyl Chloride) PVC and related plastic building product compounds.
        1. Patented PVC compound containing impact-resistant solid plasticizer titanium dioxide and calcium carbonate surface and color stabilizers.
        2. Solid color applications are to be homogeneous.
  2. Sealant: Provide type recommended by window manufacturer for the joint size and movement, to remain permanently elastic, non-shrinking and non-migrating.
     1. Fasteners:
        1. Stainless steel or other metallic or non-metallic material recommended by the manufacturer as non- corrosive and compatible with window member, trim, anchors, and other components of the window units.
        2. Anchors, Clips, Window Accessories: Depending on strength and corrosion-inhibiting requirements, fabricate units of stainless steel or hot-dip zinc-coated steel or iron complying with ASTM A 386.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. Verify rough opening sizes are of sufficient size to receive units and complies with manufacturer's requirements for opening clearances.
      3. 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 Master Installation Method instructions for installation of window units, hardware, operator, accessories and other window components and with ASTM E 2112.
      2. Coordinate window installation work with work of other trades for proper time and sequence to avoid construction delays.
      3. Install windows plumb, level and square.
         1. 1/4 inch clearance on head and jamb, level flush on sill with continuous support.
         2. Weep Holes: At bottom.
         3. Opening Panels: Must be closed and locked during installation.
         4. Headers:
            1. Nail through the fin into framing along jambs and sill while staying 3 inches (76 mm) from corners.
            2. Full support is required along entire length of sill.
      4. Accurately fit, align, securely fasten and install free from distortion or defects.
      5. Apply sealant around perimeter of units between nail fin and exterior sheathing of wall in accordance with manufacturer's instructions.
      6. Insulate perimeter of window frame with acceptable approved insulation material as recommended by window manufacturer. Do not use expansive foam insulation.
      7. Flash units in accordance with AAMA guidelines.
   4. ADJUSTING
      1. Adjust operators and components for correct function and operation in accordance with manufacturer's written instructions.
      2. Lubricate moving parts to operate smoothly and fit accurately.
      3. Inspect latch for proper operation.

\*\* NOTE TO SPECIFIER \*\* Select the following paragraph for doors and delete if not required.

* + 1. After installation adjust door units for proper operation, without binding, sticking, or racking.
    2. Remove excess sealant materials and visible labels from glass. Clean glass surfaces promptly after installation.
    3. Initiate and maintain all protection and other precautions required to ensure windows are in acceptable condition at time of substantial completion.
  1. CLEANING
     1. Vacuum clean tracks and remove any foreign debris that may affect smooth operation
     2. Remove protective covers and marking tapes from windows. Clean interior and exterior glass and surfaces of windows. Provide temporary window labels to Owner for safe keeping.
     3. Wash down surfaces with solution of mild detergent in warm water applied with soft, clean wiping cloths. Take care to remove dirt from corners. Wipe surfaces clean.
     4. Do not use petroleum-based distillates to clean windows.
     5. Remove any excess glazing and sealant compounds, dirt, and other substances.
     6. Upon completion, remove surplus materials, rubbish, tools, and equipment.
  2. PROTECTION
     1. Protect installed products until completion of project.
     2. Touch-up, repair or replace damaged products before Substantial Completion.
  3. 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. North Elevation:
       1. Opening No. WXX: Size: \_\_\_ x \_\_\_ inch (\_\_\_ x \_\_\_ mm); \_\_\_ Series.
          1. Window Unit: Vinyl Double-Hung Windows.
    2. East Elevation:
       1. Opening No. WXX: Size: \_\_\_ x \_\_\_ inch (\_\_\_ x \_\_\_ mm); \_\_\_ Series.
          1. Window Unit: Vinyl Double-Hung Windows.

END OF SECTION