SECTION 08 80 10 – WINDOW ATTACHMENTS

PART 1: GENERAL DESCRIPTION

This product retrofits single-pane windows, essentially converting them into double-pane windows. Included in this Section are Related Requirements, Reference Standards, Submittals, Quality Assurance, Delivery, Storage, Handling, Field Conditions, and Warranty.

1. RELATED REQUIREMENTS

   Drawings and General Provisions of the Contract, including General and Supplementary Conditions, Division 01 General Requirements, and Specification Sections are included under RELATED REQUIREMENTS.

2. REFERENCE STANDARDS:
   - ASTM B209-01 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate ASTM B209-01
   - ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass ASTM C1048
   - ASTM E84-22 - Standard Test Method for Surface Burning Characteristics of Building Materials ASTM E84-22
   - National Association of Architectural Metal Manufacturers (NAAMM) Metal Finishes Manual

3. SUBMITTALS
   - See Section 01 30 00 - Administrative Requirements, for submittal procedures.
   - Product Data: Manufacturer's data sheets on each product to be used, including:
     a. Preparation instructions and recommendations
     b. Storage and handling requirements and recommendations
     c. Installation methods
   - Shop Drawings: Submit elevations of each individual existing window with proposed Slim Line Insulating Pane (SLIP)
   - Samples: Two sets of finish samples

4. CLOSEOUT SUBMITTALS
   - Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

5. QUALITY ASSURANCE
   - Installer Qualifications: Engage an experienced installer certified, licensed or otherwise qualified by manufacturer as having the necessary experience, staff, and training to install manufacturer's products according to specified requirements.
   - Source Limitations: Obtain Slim Lined Insulating Panes (SLIP) through one source from

a single manufacturer who shall manufacture the Slim Lined Insulating Panes (SLIP) or SLIP kit.

6. DELIVERY, STORAGE, AND HANDLING
   - Deliver Slim Line Insulating Panes (SLIP) to project site ready for installation.
   - Store products in manufacturer's unopened packaging until ready for installation.
   - Protect components and accessories from corrosion, deformation, damage and deterioration when stored at job site. Keep materials free from dirt and foreign matter.

7. FIELD CONDITIONS
   - Field Measurements: Contractor is to verify location and dimensions of existing windows by field measurements before fabrication and indicate measurements on shop drawings. Follow manufacturer guidelines for measurement of proper "daylight size" and open area Measure at both top and bottom sashes.
   - Established Dimensions: Where field measurements cannot be made without delaying the work, establish dimensions and proceed with fabricating Slim Line Insulating Panes (SLIP) without field measurements. Contractor is responsible to coordinate elevations with any interferences with or attachments to abutting structures.

8. WARRANTY
   - See *Section 01 78 00 - Closeout Submittals*, for additional warranty requirements.
   - Warranty: Provide manufacturer's standard limited warranty for Slim Line Insulating Pane (SLIP)
   - Warranty Period:**[1]** year

PART 2: PRODUCTS

1. MANUFACTURER

   Basis-of-Design Product by Manufacturer: Chosen Wood Window Maintenance, Inc. (https://windowslip.com/). Single panel of glazing over entire window sash to sash made of aluminum, glass, vinyl, and PVC.

   Chosen Wood Window Maintenance, Inc.
   18574 HWY 99E
   Oregon City, Oregon, 97045

   Phone: 503 266 3830
   Email: sales@windowslip.com
   Web: https://chosenwwm.com/

2. APPLICATION

   Apply Slim Line Insulating Pane (SLIP) to Window Sash.

   SLIP Components:

   Frame: Aluminum Alloy 6063-T5 extrusion. A tempered aluminum alloy with good mechanical strength and corrosion resistance.

   a. Glazing: Fully tempered, heat-strengthened glass in accordance with ASTM C1048

b. Thickness: 1/8 inch and 1/4 inch
c. Glass finish choices:
   Clear for great visibility
   Obscure for privacy
   Low-E for reflecting heat from the sun
   Tinted for visual effect
   Laminated (1/4 inch only)
d. Weatherstripping: Products that may be incorporated, but are not limited to, the following: PVC Arloc™ slip coat compression seal for enhanced resistance against compression set and air leakage at the bottom sash at sill.
   - 0.003/0.001 inch typical Cap
   - 0.020/0.016 inch typical Rigid Wall
   - 0.015/0.008 inch gap in Capping
   - 7 lb minimum (J-Hook), 10 lb minimum jaw-to-jaw tear strength
   - 0.2 to 0.8 inch Barb Compression in a 0.078 Kerf

PART 3: ACCESSORIES

a. Gasket: Self-adhering rubber, cork, or neoprene roll with a pressure sensitive adhesive (glazing tape). Dimensions: 1/32 inch x 1/2 inch wide roll
b. Fasteners: Stainless steel flat head Phillips tap screw #6 x 1/4 inch
c. Finish: Stainless steel and a custom color as selected by the Architect
d. Silicone sealants as referenced in Division 07 Section *Joint Sealants*
e. Felt

PART 4: FINISHES

a. Colors:

Delicate White PPG 1001-1	Bronzed Caramel PPG MTL140	Pearl PPG 1087-2

Plus, selected standard colors or custom colors selected by the Architect

b. Performance: Conforming to AAMA Specifications for shop-applied coatings

PART 3: EXECUTION

1. EXAMINATION
    a. Examine substrates with the installer present to confirm compliance with manufacturer's requirements, including installation tolerances and other conditions affecting performance of this work.
    b. Verify that substrates are ready to receive this work.
    c. If preparation is the responsibility of another installer, notify the Architect of unsatisfactory conditions prior to proceeding with this work.
    d. Proceed with installation only after unsatisfactory conditions have been corrected.

2. PREPARATION
    a. Clean areas of supporting foundation thoroughly prior to installation.
    b. Prepare substrate surfaces using methods as recommended by the manufacturer under project conditions.

3. INSTALLATION
    a. Install Slim Line Insulating Pane (SLIP) in accordance with manufacturer's instructions, and in proper relationship with adjacent construction.
    b. Set Slim Line Insulating Pane (SLIP) plumb and aligned, anchor level and true to plane with full bearing on window sash.
    c. Test for proper operation and adjust until satisfactory results are achieved.
    d. Securely fasten to Slim Line Insulating Pane (SLIP) window sash with fasteners at pre-drilled openings.

4. ADJUSTING
    a. Adjust window balance system to compensate for weight of Slim Line Insulating Pane (SLIP).

5. FIELD QUALITY CONTROL
    a. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.
    b. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.

6. CLEANING
    a. On completion of installation, clean all Slim Line Insulating Pane (SLIP) surfaces so they are free of foreign matter.
        - Remove sealant residue or smears.
        - Do not caulk or paint heavily around the SLIP. The build-up of caulking or paint can block ventilation holes and cause the glass to fog and sweat.
        - Only use cleaners recommended for tempered glass. Use mild soap and a soft cloth. Do not use abrasive or rough products of any kind that will scratch the glass.

b. Touch-up, repair or replace damaged components or exposed finishes prior to Date of Substantial Completion.

7. CLOSEOUT ACTIVITIES

Demonstrate the operation of system to the Owner's personnel.

- Use operation and maintenance data as reference during the demonstration.
- Conduct walking tour of the project.

8. PROTECTION

Protect the installed Slim Line Insulating Pane (SLIP) from subsequent construction operations.

9. MAINTENANCE

Proper maintenance measures shall be taken to ensure a long life for the Slim Line Insulating Pane (SLIP).

END OF SECTION 08 80 10