SECTION 08 53 13

VINYL WINDOWS AND PATIO DOORS

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\*\* NOTE TO SPECIFIER \*\*Alside; vinyl windows, patio doors, and specialty windows.  
This section is based on the products of Alside, which is located at:3773 State Rd.Cuyahoga Falls, OH 44223Toll Free Tel: 800-922-6009Fax: 330-922-5387Email: [request info (FFarmer@alside.com)](https://arcat.com/rfi?action=email&company=Alside&message=RE%253A%2520Spec%2520Question%2520(08565aws)%253A%2520&coid=49250&spec=08565aws&rep=&fax=330-922-5387)  
Web: <https://www.alside.com>   
 [ [Click Here](https://arcat.com/company/alside-49250) ] for additional information.  
Alside represents over six decades of inspired innovation. Founded in 1947, Alside is a leading manufacturer of vinyl siding and accessories, vinyl windows and patio doors, and fencing and railing products for the residential and commercial remodeling and new construction markets.  
With headquarters in Cuyahoga Falls, Ohio, Alside has over 3000 employees in its seven manufacturing facilities (Cuyahoga Falls OH; West Salem OH; Ennis TX; Cedar Rapids IA; Kinston NC, Bothell WA; and Yuma AZ). Alside products are distributed to licensed professional remodeling contractors and home builders through our network of over 100 Alside Supply Centers and also through select independent distributors across the country. A division of Associated Materials Incorporated (AMI), Alside is a recognized leader in the home improvement industry, and is a charter member of the Vinyl Siding Institute, the American Association of Architects, the National Association of Home Builders, and the National Association of the Remodeling Industry.  
See our SpecWizard: [Click Here](http://www.arcat.com/specwizard/08565aws/index.htm)

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Refer to Part 2 for models available in the eastern and western US.

* + 1. Vinyl windows and patio doors.
  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 Framing0 - Cold-Formed Metal Framing.
    2. Section 06 10 00 - Rough Carpentry0 - Rough Carpentry.
    3. Section 07 91 26 - Joint Fillers0 - Joint Sealants.
  1. REFERENCES

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

* + 1. AAMA/NWWDA 101/I.S. 2-97 - Voluntary Standard for Aluminum and Poly (Vinyl Chloride) (PVC) Prime Windows and Glass Doors American Architectural Manufacturers Association (AAMA)
       1. AAMA/WDMA/CSA 101/I.S.2/A440-08 North American Fenestration Standard/Specification for windows, doors, and skylights.
       2. AAMA 506 Voluntary Specification for Hurricane Impact and Cycle Testing of Fenestration Products.
    2. American Society for Testing and Materials (ASTM):
       1. ASTM E1886 Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
       2. ASTM E1996 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.
    3. National Fenestration Rating Council (NFRC):
       1. NFRC 100 - Thermal Properties; National Fenestration Rating Council.
       2. NFRC 200 - Solar Heat Gain; National Fenestration Rating Council.
    4. IGCC - Classification of Insulating Glass Units; Insulated Glass Certification Council.
    5. U.S. Department of Energy - Energy Star Windows Program.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements0.
     2. Product Data:
        1. Manufacturer's standard details and catalog data demonstrating compliance with referenced standards; include manufacturer's standard installation instructions.
        2. Manufacturer's product drawings showing details of fabrication, hardware, weatherstripping, fasteners, screens, glazing, accessories, and related items.
     3. Shop Drawings: Manufacturer's field measured openings, window and door schedules including all dimensions, finishes, accessories, and site specific installation details.
     4. Verification Samples: Operating sample of each window type specified illustrating fabrication, hardware, glazing, screen, and finish.
     5. Test Reports: For each window type specified, furnish test reports from accredited independent testing laboratory certifying that identical or larger window units meet requirements specified for air infiltration, water penetration and structural performance by AAMA/WDMA/CSA 101/I.S.2/A440-08, for thermal performance by NFRC-97, and for seal integrity of insulating glass units by IGCC.
        1. Test reports to test standards other than those listed will not be accepted.
     6. Closeout Submittals: Warranty documents, properly executed.
  2. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Minimum ten years experience producing vinyl (PVC) windows and doors of the quantity and complexity required for this project, and capable of sending an authorized representative to the project site for field measurements and periodic installation inspections.
     2. Installer Qualifications: Minimum 2 years experience and acceptable to the manufacturer.
  3. DELIVERY, STORAGE AND HANDLING
     1. Deliver windows to project site in undamaged condition; handle windows to prevent damage to components and to finishes.
     2. Store windows out of contact with ground; protect windows from weather and construction traffic in well-ventilated area.
  4. WARRANTY
     1. Furnish manufacturer's standard limited warranty against deficiencies in materials or fabrication.

\*\* NOTE TO SPECIFIER \*\* Delete warranty types not required.

* + - 1. Lifetime Limited Warranty.
      2. High Performance Impact Warranty.
      3. New Construction Warranty.
      4. Warranty Rider.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Alside, which is located at:3773 State Rd.Cuyahoga Falls, OH 44223Toll Free Tel: 800-922-6009Fax: 330-922-5387Email: [request info (FFarmer@alside.com)](https://arcat.com/rfi?action=email&company=Alside&message=RE%253A%2520Spec%2520Question%2520(08565aws)%253A%2520&coid=49250&spec=08565aws&rep=&fax=330-922-5387);Web: <https://www.alside.com>
      2. Substitutions: Not permitted.

\*\* NOTE TO SPECIFIER \*\* Eastern region models. Add project specific information in the schedule at the end of this section or on the Drawings. Delete window and glass types not required.

* 1. VINYL WINDOWS AND PATIO DOORS - EASTERN REGION
     1. 1700 Series, New Construction Alside Vinyl Windows:
        1. Single Hung:
           1. Model: 1700
           2. Performance Class and Grade: R-PG30, 40, and 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. 2-Lite Single Slider:
           1. Model: 1702
           2. Performance Class and Grade: R-PG15, 25, and 30.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. 3-Lite Slider:
           1. Model: 1703
           2. Performance Class and Grades as Tested: R-PG15 and 20.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. 3-Lite Slider:
           1. Model: 1709
           2. Performance Class and Grades as Tested: R-PG15 and 20.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. Fixed Lite:
           1. Model: 1704
           2. Performance Class and Grades as Tested: LC-PG40 and R-PG45.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
     2. 1900 Series, New Construction Alside Vinyl Windows:
        1. Single Hung Windows:
           1. Model: 1900.
           2. Performance Class and Grade: R-PG30, 40, and 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. 2-Lite Single Slider:
           1. Model: 1902.
           2. Performance Class and Grade: R-PG15, 25, and 30.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. 3-Lite Slider:
           1. Model: 1903.
           2. Performance Class and Grades as Tested: R-PG15 and 20.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. 3-Lite Slider:
           1. Model: 1909.
           2. Performance Class and Grades as Tested: R-PG15 and 20.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. Fixed Lite:
           1. Model: 1904.
           2. Performance Class and Grades as Tested: LC-PG40 and R-PG45.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        6. Double Hung Fixed Lite:
           1. Model: 1914.
           2. Performance Class and Grades as Tested: LC-PG40, 50 and R-PG50
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
     3. New Construction, Alside Vinyl Windows:
        1. Single Hung Windows:
           1. Model: 0100.
           2. Performance Class and Grade: LC-PG25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. Single Hung, High Performance Windows:
           1. Model: 01HP.
           2. Performance Class and Grades as Tested: LC-PG25 to 55.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. 2-Lite Single Slider Windows:
           1. Model: 0102.
           2. Performance Class and Grade: R-PG15 to 45.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. 3-Lite Double Slider Windows:
           1. Model: 0103.
           2. Performance Class and Grades as Tested: R-PG15 to 25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. Fixed Lite Windows:
           1. Model: 0104.
           2. Performance Class and Grades as Tested: LC-35 to 65.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        6. Double Hung Windows:
           1. Model: 0301.
           2. Performance Class and Grades as Tested: R-20 to 30 and LC-50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        7. Awning Windows:
           1. Model: 0151.
           2. Performance Class and Grades as Tested: LC-PG30 to 60.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        8. Casement Windows:
           1. Model: 0171.
           2. Performance Class and Grade: LC-PG25 to 55.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        9. Fixed Casement Windows:
           1. Model: 0170.
           2. Performance Class and Grade: LC-PG25 to 55.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        10. Patio Door:
            1. Model: 1106.
            2. Performance Class and Grades as Tested: R-PG20-35.
            3. Glazing: Manufacturer's standard insulating glass unit.
            4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
            5. Glazing: \_\_\_\_\_\_.
     4. Mezzo Series, New Construction and Replacement, Alside Vinyl Windows:
        1. Single Hung Windows:
           1. Model: 03A0.
           2. Performance Class and Grades as Tested: R-PG20 to 35, and LC-PG20 to 35.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. Double Hung Windows:
           1. Model: 3001.
           2. Performance Class and Grades as Tested: R-PG15 to 35, and LC-PG30 to 50.
           3. Options Include: Steel or composite reinforcement.
           4. Glazing: Manufacturer's standard insulating glass unit.
           5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           6. Glazing: \_\_\_\_\_\_.
        3. 2-Lite Slider Windows:
           1. Model: 3002.
           2. Performance Class and Grades as Tested: R-PG15 to 20, and LC-PG25 to 40.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. 2-Lite Slider Windows:
           1. Model 03A2.
           2. Performance Class and Grades as Tested: R-PG20 to 35, and LCPG25 to 35.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. 3-Lite Slider Windows:
           1. Model: 3003.
           2. Performance Class and Grades as Tested: R-PG15 to 20, and LC-PG25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        6. 3-Lite Slider Windows:
           1. Model: 3009.
           2. Performance Class and Grades as Tested: R-PG15 to 25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        7. 3-Lite Slider Windows:
           1. Model: 03A3.
           2. Performance Class and Grades as Tested: R-PG20 and LC-PG25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        8. 3-Lite Slider Windows:
           1. Model: 0309.
           2. Performance Class and Grade: R-PG20.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        9. Fixed Lite Windows:
           1. Model: 03A4.
           2. Performance Class and Grade: CW-PG35 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
     5. Coastal and Impact, New Construction and Replacement, Alside Vinyl Windows:
        1. Single Hung Windows:
           1. Model: 3100.
           2. Performance Class and Grade: LC-PG50.
           3. Impact: Pass ASTM E1886 and E1996.
           4. Glazing: Manufacturer's standard insulating glass unit.
           5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           6. Glazing: \_\_\_\_\_\_.
        2. 2-Lite Single Slider Windows:
           1. Model: 3102.
           2. Performance Class and Grades as Tested: R-PG50 to LC-PG40.
           3. Impact: Pass ASTM E1886, E1996, and AAMA 506.
           4. Glazing: Manufacturer's standard insulating glass unit.
           5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           6. Glazing: \_\_\_\_\_\_.
        3. 3-Lite Single Slider Windows:
           1. Model: 3109.
           2. Performance Class and Grade: R-PG40.
           3. Impact: Pass ASTM E1886, E1996, and AAMA 506.
           4. Glazing: Manufacturer's standard insulating glass unit.
           5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           6. Glazing: \_\_\_\_\_\_.
        4. Fixed-Lite Windows:
           1. Model: 3109
           2. Performance Class and Grade: R-PG50.
           3. Impact: Pass ASTM E1886, E1996, and AAMA 506.
           4. Glazing: Manufacturer's standard insulating glass unit.
           5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           6. Glazing: \_\_\_\_\_\_.
        5. Fixed-Lite Windows:
           1. Model: i204.
           2. Performance Class and Grade: R-PG55.
           3. Impact: Pass ASTM E1886.
           4. Glazing: Manufacturer's standard insulating glass unit.
           5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           6. Glazing: \_\_\_\_\_\_.
        6. Fixed Casement Windows:
           1. Model: i970.
           2. Performance Class and Grade: R-PG60.
           3. Impact: Pass ASTM E1886, E1996, and AAMA 506.
           4. Glazing: Manufacturer's standard insulating glass unit.
           5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           6. Glazing: \_\_\_\_\_\_.
        7. Double Hung Windows:
           1. Model: i201.
           2. Performance Class and Grades as Tested: R-PG45 to 50, and LC-PG45 to 50.
           3. Impact: Pass ASTM E1886, E1996, and AAMA 506.
           4. Options Include: 1 or 2 locks, reinforced lock rail and stiles.
           5. Glazing: Manufacturer's standard insulating glass unit.
           6. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           7. Glazing: \_\_\_\_\_\_.
        8. Awning Windows:
           1. Model: i951.
           2. Performance Class and Grade: LC-PG50.
           3. Impact: Pass ASTM E1886, E1996, and AAMA 506.
           4. Options Include: Lmi IG.
           5. Glazing: Manufacturer's standard insulating glass unit.
           6. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           7. Glazing: \_\_\_\_\_\_.
        9. Casement Windows:
           1. Model: i971.
           2. Performance Class and Grade: LC-PG55.
           3. Impact: Pass ASTM E1886, E1996, and AAMA 506.
           4. Glazing: Manufacturer's standard insulating glass unit.
           5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           6. Glazing: \_\_\_\_\_\_.
        10. Patio Doors:
            1. Model: 11i5.
            2. Performance Class and Grade: R-PG50.
            3. Impact: Pass ASTM E1886, E1996, and AAMA 506.
            4. Glazing: Manufacturer's standard insulating glass unit.
            5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
            6. Glazing: \_\_\_\_\_\_.
        11. Patio Doors:
            1. Model: 51i5.
            2. Performance Class and Grade: R-PG50.
            3. Impact: Pass ASTM E1886, E1996, and AAMA 506.
            4. Glazing: Manufacturer's standard insulating glass unit.
            5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
            6. Glazing: \_\_\_\_\_\_.
        12. Patio Doors:
            1. Model: 5203.
            2. Performance Class and Grade: LC-PG50.
            3. Impact: Pass ASTM E1886 and E1996.
            4. Glazing: Manufacturer's standard insulating glass unit.
            5. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
            6. Glazing: \_\_\_\_\_\_.
     6. Sheffield Series, Alside Vinyl Replacement Windows:
        1. Double Hung Windows:
           1. Model: 0501.
           2. Performance Class and Grades as Tested: LC-PG25 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. 2-Lite Slider Windows:
           1. Model: 0502.
           2. Performance Class and Grades as Tested: R-PG35 to 45, and LC-PG25 to 30.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. 3-Lite Slider Windows:
           1. Model: 0503.
           2. Performance Class and Grade: R-PG25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. 3-Lite Slider Windows:
           1. Model: 0509.
           2. Performance Class and Grade: R-PG15-25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. Fixed Lite Windows:
           1. Model: 0504.
           2. Performance Class and Grades as Tested: LC-PG25 to 45 and CW-PG35.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
     7. Awning and Casement, Alside Vinyl Replacement Windows:
        1. Awning Windows:
           1. Model: 0951.
           2. Performance Class and Grades as Tested: LC-PG35 to 55.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. Casement Windows:
           1. Model: 0971.
           2. Performance Class and Grades as Tested: LC-PG40 to 70.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. Fixed Casement Windows:
           1. Model: 0970.
           2. Performance Class and Grades as Tested: LC-PG25 to 45.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
     8. Patio Doors: Alside Patio Doors.
        1. Patio Doors:
           1. Model: 5102.
           2. Performance Class and Grades as Tested: R-PG20 to 35.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. Patio Doors:
           1. Model: 6102.
           2. Performance Class and Grades as Tested: R-PG25 to 30.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. Patio Doors:
           1. Model: 6402.
           2. Performance Class and Grades as Tested: R-PG15 to 50, and LC-PG25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. Patio Doors:
           1. Model: 6422.
           2. Performance Class and Grades as Tested: R-PG15 to 30.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. Patio Doors:
           1. Model: 6475.
           2. Performance Class and Grades as Tested: R-PG15 to 35.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Western region models. Add project specific information in the schedule at the end of this section or on the Drawings. Delete window and glass types not required.

* 1. VINYL WINDOWS AND PATIO DOORS - WESTERN REGION
     1. New Construction, 70 Series, Alside Vinyl Windows:
        1. Single Hung Windows:
           1. Model: A571.
           2. Performance Class and Grades as Tested: R-PG30 and LC-PG30 to 45.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. Fixed Lite Windows:
           1. Model: A570.
           2. Performance Class and Grades as Tested: LC-PG40 to 55 and CW-PG30 to 35.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. Fixed Lite Windows:
           1. Model: A270:
           2. Performance Class and Grades as Tested: LC-PG40 to 55 and CW-PG30 to 35.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. Fixed Lite Windows:
           1. Model: A770:
           2. Performance Class and Grades as Tested: CW-PG35 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. 2-Lite Slider Windows:
           1. Model: A272.
           2. Performance Class and Grades as Tested: R-PG20 to 45 and LC-PG20 to 45.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        6. 3-Lite Slider Windows:
           1. Model: A273.
           2. Performance Class and Grades as Tested: R-PG20 and LC-PG25 to 40.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
     2. New Construction, 80 Series, Alside vinyl windows:
        1. Single Hung Windows:
           1. Model: A581.
           2. Performance Class and Grades as Tested: LC-PG45 to 50 and LC-PG25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. Fixed Lite Windows:
           1. Model: A580.
           2. Performance Class and Grades as Tested: LC-PG40 to 60 and CW-PG30 to 45.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. Fixed Lite Windows:
           1. Model: A780.
           2. Performance Class and Grades as Tested: LC-PG50 to 65 and CW-PG35 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. Fixed Lite Windows:
           1. Model: A280.
           2. Performance Class and Grades as Tested: LC-PG40 to 60 and CW PG30 to 40.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. Two-Lite Slider Windows:
           1. Model: A282.
           2. Performance Class and Grades as Tested: LC-PG20 to 45 and R-PG20.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        6. Three-Lite Slider Windows:
           1. Model: A283.
           2. Performance Class and Grades as Tested: LC-PG20 to 40 and R-PG20.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
     3. New Construction, Awnings and Casements, Alside vinyl windows:
        1. Fixed Lite Windows:
           1. Model: A680.
           2. Performance Class and Grades as Tested: R-PG20 and LC-PG25 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. Awning Windows:
           1. Model: A681.
           2. Performance Class and Grades as Tested: R-PG20 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. Casement Windows:
           1. Model: A682.
           2. Performance Class and Grades as Tested: R-PG15, C-R15 and C-PG30 to 65, LC-PG30 to 65, CW-PG40 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
     4. Sheffield II Series, Alside vinyl replacement windows:
        1. Double Hung Windows:
           1. Model: A501.
           2. Performance Class and Grades as Tested: R-PG-20 and LC-PG25 to 35.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. 2-Lite Slider Windows:
           1. Model: A502.
           2. Performance Class and Grades as Tested: R-PG35 to 45 and LC-PG25 to 30.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. 3-Lite Slider Windows:
           1. Model: A503:
           2. Performance Class and Grades as Tested: R-PG20 to 25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. 3-Lite Slider Windows:
           1. Model: A509:
           2. Performance Class and Grades as Tested: R-PG15 to 25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. Fixed Lite Windows:
           1. Model: A504.
           2. Performance Class and Grades as Tested: LC-PG20 to 40.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
     5. Awning and Casement Windows, Alside Vinyl Replacement Windows:
        1. Fixed Lite Windows:
           1. Model: A690.
           2. Performance Class and Grade: LC-PG20 to 40.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. Awning Windows:
           1. Model: A691.
           2. Performance Class and Grades as Tested: R-PG20 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. Casement Windows:
           1. Model: A692.
           2. Performance Class and Grades as Tested: R-PG15, LC-PG30 to 65, CW-PG40 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
     6. Mezzo Series, Alside Vinyl New Construction and Replacement Windows:
        1. Single Hung Windows:
           1. Model: 03S0.
           2. Performance Class and Grades as Tested: R-PG20 to 35, and LC-PG20 to 35.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. Double Hung Windows:
           1. Model: 3A01.
           2. Performance Class and Grades as Tested: R-PG15 to 35 and LC-PG25 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. 2-Lite Slider Windows:
           1. Model: 3A02:
           2. Performance Class and Grades as Tested: R-PG15 to 25, and LC-PG25 to 40.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. 2-Lite Slider Windows:
           1. Model: 03S2:
           2. Performance Class and Grades as Tested: R-PG20 to 35 and LC-PG25 to 35.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. 3-Lite Slider Windows:
           1. Model: 3A03:
           2. Performance Class and Grades as Tested: R-PG15 to 20 and LC-PG25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        6. 3-Lite Slider Windows:
           1. Model: 3A09:
           2. Performance Class and Grades as Tested: R-PG15.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        7. 3-Lite Slider Windows:
           1. Model: 03S3.
           2. Performance Class and Grades as Tested: R-PG20 and LC-PG25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        8. 3-Lite Slider Windows:
           1. Model: 03S9:
           2. Performance Class and Grade: R-PG20.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        9. Fixed Lite Windows:
           1. Model: 3A04:
           2. Performance Class and Grades as Tested: CW-PG35 to 50.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        10. Fixed Lite Windows:
            1. Model: 03S4:
            2. Performance Class and Grades as Tested: CW-PG35 to 50.
            3. Glazing: Manufacturer's standard insulating glass unit.
            4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
            5. Glazing: \_\_\_\_\_\_.
     7. Patio Doors: Alside Patio Doors.
        1. 2 Panels, 6 and 8 feet:
           1. Model: A172.
           2. Performance Class and Grades as Tested: R-PG20 to 40 and LC-PG30.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        2. 2 Panels, 5, 6, and 8 feet:
           1. Model: 6502.
           2. Performance Class and Grades as Tested: R-PG30 to 45 and LC-PG35 to 40.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        3. 3 Panel (9 and 12 feet):
           1. Model: A173.
           2. Performance Class and Grades as Tested: R-PG15 to 25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        4. 4 Panel (12 feet):
           1. Model: A175:
           2. Performance Class and Grades as Tested: R-PG20 and LC-PG25.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.
        5. 4 Panel (12 feet):
           1. Model: 6522:
           2. Performance Class and Grades as Tested: R-PG20 to 30 and LC-PG25 to 30.
           3. Glazing: Manufacturer's standard insulating glass unit.
           4. Glazing: Manufacturer's standard insulating glass unit with low-e coating.
           5. Glazing: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Insert project specific information based on project requirements. Delete options not required.

* 1. FABRICATION
     1. Frames:
        1. Material: \_\_\_\_\_\_\_\_\_
        2. Reinforcement:
           1. Steel: \_\_\_\_\_\_\_\_\_
           2. Composite: \_\_\_\_\_\_\_\_\_
        3. Insulation: \_\_\_\_\_\_\_\_\_
        4. Thermal Break: \_\_\_\_\_\_\_\_\_
        5. Locks: \_\_\_\_\_\_\_\_\_
        6. Factory Installed Flashing: \_\_\_\_\_\_\_\_\_
        7. Integral Nail Fin on New Construction.
        8. Integral J Channel on New Construction.
     2. Glass:
        1. Glass Packages: Manufacturers standard configurations of annealed or laminated glass with air or argon interspace with varying acoustical and thermal performance in accordance with current published test results.

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

* + - 1. Energy Efficiency: Manufactures ClimaTech multi-layered low-emissivity (Low-E) glass and argon gas with one of the following warm edge spacers:
         1. PPG Intercept: One-piece metal alloy in U-channel design.
         2. ThermD Stainless Steel: Extra strength, durability, resistance to corrosion, impervious to gas transmission.

\*\* NOTE TO SPECIFIER \*\* Delete types not required.

* + - 1. Insulated Glass Thickness:
         1. Typical, Single Strength: 3/4 inch.
         2. Double Strength: 13/16 inch.
         3. Triple Strength: 13/16 inch.

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

* + - 1. Self-Cleaning Glass: Transparent coating bonded to exterior surface in the factory utilizes ultraviolet rays and water to break down and loosen dirt using photocatalytic processes.
    1. Decorative Options:
       1. Prefinished interior trim profiles:
          1. 5/8 inch x 3/4 inch Colonial quarter round.
          2. 11/16 inch x 2-1/4 inch Colonial casing.
          3. 11/16 inch x 3-1/4 inch Colonial casing.
          4. 5/8 inch x 3/4 inch Quarter round.
          5. 3/4 inch x 3-9/16 inch Extension jamb.
       2. Interior Grids: Enclosed within glazing, the following patterns and profiles vary by model.
          1. Colonial.
          2. Diamond.
          3. Prairie.
          4. Double prairie.
    2. Decorative Glass Options:
       1. Cut glass:
          1. Colonial.
          2. Diamond.
          3. Prairie.
          4. Double prairie.
          5. Star Crest I, II, or III.
       2. Beveled-Leaded Glass:
          1. St. Joseph.
          2. Jackson.
          3. Hanna.
          4. Vicksburg.

\*\* NOTE TO SPECIFIER \*\* Delete finishes and grid options not required.

* 1. FINISHES
     1. Finish System:
        1. Exterior: Polyurethane.
        2. Interior: Manufacturer's standard high-performance finish.
     2. Exterior Window and Door Color:
        1. Architectural bronze.
        2. English red.
        3. Desert clay.
        4. Hudson khaki.
        5. Forest green.
        6. American terra.
        7. Castle gray.
        8. Beige.
        9. White.
     3. Interior Window and Door Color:
        1. White woodgrain.
        2. Soft maple woodgrain.
        3. Rich maple woodgrain.
        4. Light oak woodgrain.
        5. Dark oak woodgrain.
        6. Foxwood woodgrain.
        7. Cherry woodgrain.
        8. Beige.
        9. White.
     4. Interior Pre-Finished Trim Color:
        1. Light Oak.
        2. Dark Oak.
        3. Foxwood.
        4. Cherry.
        5. White.
        6. Beige.
     5. Interior Grid Profiles and Colors:
        1. Classic grids:
           1. White.
           2. Beige.
        2. Contoured grids:
           1. Beige.
           2. Soft maple.
           3. Rich maple.
           4. Light oak.
           5. Dark oak.
           6. Foxwood.
           7. Cherry.
        3. Metals:
           1. Gold tone brass.
           2. Narrow brass.

1. EXECUTION
   1. EXAMINATION
      1. Verification of Conditions: Openings are in correct location, and of correct size, in accordance with approved shop drawings and manufacturer's installation instructions.
      2. Installer's Examination:
         1. Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if such conditions are unacceptable.
         2. Transmit two copies of installer's report to Architect within 24 hours of receipt.
         3. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.
         4. Beginning construction activities of this section indicates installer's acceptance of conditions.
   2. INSTALLATION
      1. Install products specified in this section square, plumb and level, in accordance with approved shop drawings and manufacturer's installation instructions.
      2. Installation of flashing is specified in Section 07 62 00 - Sheet Metal Flashing and Trim.
      3. Installation of joint sealers is specified in Section 07 90 00 - Joint Protection.
   3. ADJUSTING
      1. Adjust operating hardware for correct operation in accordance with manufacturer's installation instructions.
   4. CLEANING
      1. Clean interior and exterior surfaces free of labels, mortar, plaster, paint, joint sealers, and other foreign matter to prevent damage to weatherstrip, and to prevent interference with operation of hardware.
   5. PROTECTION
      1. Protect ventilators and operating parts from dirt and damage caused by subsequent construction activities.
      2. Replace units damaged by subsequent construction activities.

\*\* NOTE TO SPECIFIER \*\* Delete if window and door schedule is on the Drawings.

* 1. WINDOW AND DOOR SCHEDULE
     1. Window Type [\_\_\_]:
        1. Size:
        2. Performance Class and Grade:
        3. Model:
        4. Frame:
        5. Glass Package:
        6. Finish:
     2. Window Type [\_\_\_]:
        1. Size:
        2. Performance Class and Grade:
        3. Model:
        4. Frame:
        5. Glass Package:
        6. Finish:
     3. Door Type [\_\_\_]:
        1. Size:
        2. Performance Class and Grade:
        3. Model:
        4. Frame:
        5. Glass Package:
        6. Finish:

END OF SECTION