SECTION 08 52 00

ALUMINUM CLAD WOOD WINDOWS AND PATIO DOORS

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\*\* NOTE TO SPECIFIER \*\* Weather Shield Mfg., Inc.; Weather Shield Premium SeriesAluminum clad wood window products.
This section is based on the products of Weather Shield Mfg., Inc., which is located at:
One Weather Shield Plaza P. O. Box 309
Medford, WI 54451
Toll Free Tel: 800-538-8836
Tel: 715-748-2100
Fax: 800-390-1225
Email: [request info (archservices@weathershield.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Weather+Shield+Mfg.,+Inc.&coid=36464&rep=&fax=800-390-1225&message=RE:%20Spec%20Question%20(08554wea):%20%20&mf=)
Web: <http://www.weathershield.com>
 [ [Click Here](http://www.arcat.com/arcatcos/cos36/arc36464.html) ] for additional information.
Since 1955, Weather Shield has been committed to making windows and doors the best way we know how-- by putting the wants of our customers first. Today, this philosophy remains the heart and soul of everything we do.
Our focus on innovative and flexible solutions clearly distinguishes Weather Shield from other window and door companies. It's the reason we offer more styles, shapes, sizes and options in more product lines than anyone else in the industry. It's what drives us to design, engineer and manufacture the highest quality, most energy efficient products possible.
This specification includes Weather Shield Premium Series Windows and doors. This series is designed to meet the needs of the most discriminating architects and homeowners. Innovative designs are matched with old world craftsmanship. The Premium Series is our most comprehensive collection of wood windows and patio doors. With a vast array of options, accessories and upgrades, you can explore the limits of your creativity.

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Aluminum Clad Wood Double-Hung Windows.
		2. Aluminum Clad Wood Casement Windows.
		3. Aluminum Clad Wood Awning Windows.
		4. Aluminum Clad Wood Double Slider Windows.
		5. Aluminum Clad Wood Direct Set Special Shape Windows.
		6. Aluminum Clad Wood Sliding Patio Doors.
		7. Aluminum Clad Wood Swing Patio Doors.
	1. RELATED SECTIONS

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

* + 1. Section 04 27 23 - Cavity Wall Unit Masonry.
		2. Section 06 10 00 - Rough Carpentry.
		3. Section 06 20 00 - Finish Carpentry.
		4. Section 07 21 19 - Foamed-In-Place 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 35 13.13 - Accordion Folding Doors.
		9. Section 08 15 73 - Sliding Plastic Doors.
		10. Section 08 71 00 - Door Hardware.
		11. Section 08 83 13 - Mirrored Glass Glazing.
	1. REFERENCES

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

* + 1. ASTM C 1036 - Standard Specification for Flat Glass.
		2. ASTM E 2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.
		3. ASTM F 588 - Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact.
		4. ASTM F 1233 - Standard Test Method for Security Glazing Materials and Systems.
		5. AAMA/WDMA/CSA 101/I.S.2/A440 - Standard Specifications for Windows, Doors and Unit Skylights.
		6. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum
		7. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels; 1998.
	1. DESIGN / PERFORMANCE REQUIREMENTS
		1. System Design: Design and size components to withstand dead and live loads caused by pressure and suction of wind acting normal to plane of folding glass wall as calculated in accordance with applicable code.
	2. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.
		3. Shop Drawings: Indicate opening dimensions and installation requirements. Include schedule identifying each unit, with marks or numbers referencing Drawings.

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

* + 1. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
			1. Product Data for Credit MR 4.1 and MR 4.2: For products having recycled content, documentation including percentages by weight of post consumer and preconsumer recycled content
				1. Include statement indicating costs for each product having recycled content.
			2. Product Data for Credit MR 5.1 and Credit MR 5.2: Submit data, including location and distance from Project of material manufacturer and point of extraction, harvest or recovery for main raw material.
				1. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.
			3. Product Data for Credit MR 7: For products using a minimum of 50 percent of wood based materials and products, certified in accordance with the Forest Stewardship Council's Principles.
				1. Include statement indicating costs of the wood building components permanently installed in a LEED-registered project certified by Forest Stewardship Council (FSC).

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

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
		2. Verification Samples: For each finish product specified, two samples, representing actual product, color, and patterns.
		3. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing residential and commercial aluminum clad wood windows and doors with minimum ten years documented experience.
		2. Installer Qualifications: Company specializing in performing residential and commercial installation of aluminum clad wood windows and doors with minimum five years documented experience.

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

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
			1. Finish areas designated by Architect.
			2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
			3. Refinish mock-up area as required to produce acceptable work.
	1. DELIVERY, STORAGE, AND HANDLING
		1. Store products in manufacturer's unopened packaging until ready for installation.
		2. Store units in a dry location, off the ground, under cover, protected from weather and construction activities.
	2. SEQUENCING
		1. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
		2. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
	4. WARRANTY

\*\* NOTE TO SPECIFIER \*\* Select the warranty for the finishes specified. See manufacturers web site for limitation details.

* + 1. Clad Windows and Patio Doors: 20-year limited warranty.
			1. Wood Rot 30-year limited warranty.
			2. Exterior Aluminum Finishes 20-year limited warranty.
			3. Factory Applied Interior Accentials Color System: 10-year limited warranty.
			4. Factory Applied Interior Finish or Stain: 5-year limited warranty.
			5. Hardware Finish: 10-year limited warranty.
		2. Glass:
			1. Laminated glass: 5-year limited warranty.
			2. Decorative glass: 5-year limited warranty.
			3. Insulating glass: 20-year limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Weather Shield Mfg., Inc., which is located at: One Weather Shield Plaza P. O. Box 309; Medford, WI 54451; Toll Free Tel: 800-538-8836; Tel: 715-748-2100; Fax: 800-390-1225; Email: [request info (archservices@weathershield.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Weather+Shield+Mfg.,+Inc.&coid=36464&rep=&fax=800-390-1225&message=RE:%20Spec%20Question%20(08554wea):%20%20&mf=); Web: <http://www.weathershield.com>

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

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

\*\* NOTE TO SPECIFIER \*\* Edit the following paragraphs as required and applicable to project requirements. Delete the paragraphs that are not applicable.

* 1. ALUMINUM CLAD WOOD WINDOWS
		1. Aluminum Clad Wood Double-Hung Tilt Windows: Weather Shield Premium Series Model 8109:
			1. Performance:
				1. AAMA/WDMA/CSA 101/I.S.2/A440-08:

1-Wide Double Hung Rating: CW-PG35-H; 55-1/2 inches by 95-1/2 inches (1410 mm by 2426 mm) jamb size tested.

1-Wide Double Hung Rating: LC-PG50-H; 55-1/2 inches by 95-1/2 inches (1410 mm by 2426 mm) jamb size tested.

2-Wide Double Hung Rating: LC-PG50-H; 47-1/2 inches by 83-1/2 inches (1206.5 mm by 2120.9 mm) individual jamb size tested.

* + - * 1. Vertical mull, mulled and applied rating: LC50.
				2. Air Infiltration: not exceed 0.30 cfm/ft2 (1.5 L/sm2) when tested at 1.57 psf (75 Pa) according to ASTM E 283.
				3. Water Performance: No water penetration when tested at the following pressure according to ASTM E 547: LC-PG50-H, 7.50 psf (360 Pa)
				4. Structural Test Pressure: Positive/negative structural test pressure without damage when tested according to ASTM E 330: LC-PG50-H, plus/minus 75 psf (plus/minus 3600 Pa).
				5. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
			1. Hardware
				1. Style

\*\* NOTE TO SPECIFIER \*\* Select the style required from the following paragraphs. Delete the paragraphs not required.

Sash lock, Contemporary.

Sash lock, Historical.

Tilt Latches, Concealed.

Tilt Latches, Manual.

Lift Handle, Contemporary.

Lift Handle, Historical.

* + - * 1. Color:

\*\* NOTE TO SPECIFIER \*\* Select the color required from the following paragraphs. Delete the paragraphs not required.

Tan.

White.

Rustic Bronze.

Brushed Nickel.

Bright brass.

Black.

* + - 1. Full screen consisting of .019 inch (0.5 mm) thick formed aluminum frame with baked-on acrylic coating, injection molded vinyl corner keys.

\*\* NOTE TO SPECIFIER \*\* NOTE TO SPECIFIER \*\* Select one of the following two mesh paragraphs and delete the one not required.

* + - * 1. Mesh, High-Visibility, No See-um.
				2. Mesh, Aluminum Non-glare.
				3. Frame finish: Matches exterior frame/sash.
		1. Aluminum Clad Wood Double-Hung Tilt Transom Windows: Weather Shield Premium Series Model 8117:
			1. Performance:
				1. AAMA /WDMA/CSA 101/I.S.2/A440-08:

1-Wide Double Transom Hung Rating: CW-PG50-FW; 71-1/2 inches by 59-1/2 inches (1816 mm by 1510 mm) jamb size tested

* + - * 1. Air Infiltration: not exceed 0.30 cfm/ft2 (1.5 L/sm2) when tested at 1.57 psf (75 Pa) according to ASTM E 283.
				2. Water Performance: No water penetration when tested at the following pressure according to ASTM E 547: CW-PG50, 7.50 psf (360 Pa)
				3. Structural Test Pressure: Positive/negative structural test pressure without damage when tested according to ASTM E 330: CW-PG50, plus/minus 75 psf (plus/minus 3600 Pa).
				4. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
		1. Aluminum Clad Wood Double-Hung Tilt Stationary Picture Windows: Weather Shield Premium Series Model 8116:
			1. Performance:
				1. AAMA /WDMA/CSA 101/I.S.2/A440-08:

1 Wide Double-Hung Tilt Stationary Picture Rating: CW-PG40-FW; 71-1/2 inches by 95-1/2 inches (1816 mm by 2425 mm) jamb size tested.

* + - * 1. Air Infiltration: not exceed 0.30 cfm/ft2 (1.5 L/sm2) when tested at 1.57 psf (75 Pa) according to ASTM E 283.
				2. Water Performance: No water penetration when tested at the following pressure according to ASTM E 547: CW-PG40, 6.00 psf (288 Pa)
				3. Structural Test Pressure: Positive/negative structural test pressure without damage when tested according to ASTM E 330: CW-PG40, plus/minus 60 psf (plus/minus 2800 Pa).
				4. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
		1. Aluminum Clad Wood Casement Windows: Weather Shield Premium Series Model 8211:
			1. Performance:
				1. AAMA /WDMA/CSA 101/I.S.2/A440-08:

1-Wide Casement Rating: LC-PG55-C; 47-1/2 inches by 95-1/2 inches (1206 mm by 2413 mm) jamb size tested.

2-Wide Casement Rating: CW-PG50-C; 41-1/2 inches by 83-1/2 inches (1040 mm by 2121 mm) individual jamb size tested.

2-Wide Casement Rating: LC-PG65-C; 41-1/2 inches by 83-1/2 inches (1040 mm by 2121 mm) individual jamb size tested with performance upgrades.

* + - * 1. Vertical mull, mulled and applied rating: LC50 or LC65 with performance upgrades.
				2. Air Infiltration: not exceed 0.30 cfm/ft2 (1.5 L/sm2) when tested at 1.57 psf (75 Pa) according to ASTM E 283.
				3. Water Performance: No water penetration when tested at the following pressure according to ASTM E 547:

CW-PG50-C, 7.50 psf (360 Pa)

LC-PG55-C, 8.25 psf (396 Pa.

LC-PG65-C, 9.75 psf (468 Pa)

* + - * 1. Structural Test Pressure: Positive/negative structural test pressure without damage when tested according to ASTM E 330:

CW-PG50-C, plus/minus 75 psf (plus/minus 3600 Pa).

LC-PG55-C, plus/minus 82.5 psf (plus/minus 3960 Pa)

LC-PG65-C, plus/minus 97.5 psf (plus/minus 680 Pa)

* + - * 1. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
			1. Hardware
				1. Style

Nested Handle.

Traditional.

Contemporary.

Sequential Lock Lever.

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

* + - * 1. Type: Corrosion Resistant operating hardware.
				2. Color:

\*\* NOTE TO SPECIFIER \*\* Select the color required from the following paragraphs. Delete the paragraphs not required.

Tan.

White.

Rustic Bronze.

Brushed Nickel.

Bright brass.

Black.

Polished Chrome.

* + - 1. Screen consisting of .019 inch (0.5 mm) thick formed aluminum frame with baked-on acrylic coating, injection molded vinyl corner keys.

\*\* NOTE TO SPECIFIER \*\* NOTE TO SPECIFIER \*\* Select one of the following two mesh paragraphs and delete the one not required.

* + - * 1. Mesh, High-Visibility, No See-um.
				2. Mesh, Aluminum Non-glare.
				3. Frame finish: Coordinated with hardware color.
		1. Aluminum Clad Wood Casement Transom Windows: Weather Shield Premium Series Model 8211.
			1. Performance:
				1. AAMA /WDMA/CSA 101/I.S.2/A440-08:

2-Wide Casement Transom Rating: CW-PG45-FW; 71-1/2 inches by 95-1/2 inches (1815 mm by 2425 mm) individual jamb size tested.

* + - * 1. Vertical mull, mulled and applied rating: LC45.
				2. Air Infiltration: not exceed 0.30 cfm/ft2 (1.5 L/sm2) when tested at 1.57 psf (75 Pa) according to ASTM E 283.
				3. Water Performance: No water penetration when tested at the following pressure according to ASTM E 547:

CW-PG45-FW, 6.75 psf (324 Pa)

* + - * 1. Structural Test Pressure: Positive/negative structural test pressure without damage when tested according to ASTM E 330:

CW-PG45-FW, plus/minus 67.5 psf (plus/minus 3250 Pa).

* + - * 1. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
		1. Aluminum Clad Wood Casement Stationary Picture Windows: Weather Shield Premium Series Model 8211:
			1. Performance:
				1. AAMA /WDMA/CSA 101/I.S.2/A440-08:

2-Wide Casement Stationary Picture Rating: CW-PG45-FW; 71-1/2 inches by 95-1/2 inches (1815 mm by 2425 mm) individual jamb size tested.

* + - * 1. Vertical mull, mulled and applied rating: LC45.
				2. Air Infiltration: not exceed 0.30 cfm/ft2 (1.5 L/sm2) when tested at 1.57 psf (75 Pa) according to ASTM E 283.
				3. Water Performance: No water penetration when tested at the following pressure according to ASTM E 547:

CW-PG45-FW, 6.75 psf (324 Pa)

* + - * 1. Structural Test Pressure: Positive/negative structural test pressure without damage when tested according to ASTM E 330:

CW-PG45-FW, plus/minus 67.5 psf (plus/minus 3250 Pa).

* + - * 1. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
		1. Aluminum Clad Wood Awning Windows: Weather Shield Premium Series Model 8211:
			1. Performance:
				1. AAMA/WDMA/CSA 101/I.S.2/A440-11:

2-Wide Awning Rating: LC-PG50-AP; 59-1/2 inches by 59-1/2 inches (1511 mm by 1511 mm) individual jamb size tested.

1-Wide Awning Rating: LC-PG55-AP; 59-1/2 inches by 35-1/2 inches (1511 mm by 902 mm) jamb size tested.

* + - * 1. Vertical mull, mulled and applied rating:

LC50

* + - * 1. Air Infiltration: not exceed 0.30 cfm/ft2 (1.5 L/sm2) when tested at 1.57 psf (75 Pa) according to ASTM E 283.
				2. Water Performance: No water penetration when tested at the following pressure according to ASTM E 547:

LC-PG50-AP, 7.50 psf (360 Pa)

LC-PG55-AP, 8.25 psf (396 Pa.

* + - * 1. Structural Test Pressure: Positive/negative structural test pressure without damage when tested according to ASTM E 330:

LC-PG50-AP, plus/minus 75 psf (plus/minus 3600 Pa).

LC-PG55-AP, plus/minus 82.5 psf (plus/minus 3960 Pa)

* + - * 1. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
			1. Hardware:
				1. Style:

Nested Handle.

Traditional.

Contemporary.

Lock Lever.

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

* + - * 1. Type: Corrosion Resistant operating hardware.
				2. Color:

\*\* NOTE TO SPECIFIER \*\* Select the color required from the following paragraphs. Delete the paragraphs not required.

Tan.

White.

Rustic Bronze.

Brushed Nickel.

Bright brass.

Black.

Polished chrome.

* + - 1. Screen consisting of .019 inch (0.5 mm) thick formed aluminum frame with baked-on acrylic coating, injection molded vinyl corner keys.

\*\* NOTE TO SPECIFIER \*\* NOTE TO SPECIFIER \*\* Select one of the following two mesh paragraphs and delete the one not required.

* + - * 1. Mesh, High-Visibility, No See-um.
				2. Mesh, Aluminum Non-glare.
				3. Frame finish: Coordinated with hardware color.
		1. Aluminum Clad Wood Double Slider Windows: Weather Shield Premium Series Model 8401:
			1. Performance:
				1. AAMA /WDMA/CSA 101/I.S.2/A440-08:

Double Slider Rating: R-PG-R20-HS; jamb size tested 71-1/2 inches by 71-1/2 inches (1816 mm by1816 mm).

Double Slider Rating: R-PG-R25-HS; jamb size tested 59-1/2 inches by 59-1/2 inches (1511 mm by1511 mm).

* + - * 1. Air Infiltration: not exceed 0.30 cfm/ft2 (1.5 L/sm2) when tested at 1.57 psf (75 Pa) according to ASTM E 283.
				2. Water Performance: No water penetration when tested at the following pressure according to ASTM E 547:

R-PG-R20-HS, 3.00 psf (144 Pa)

R-PG-R25-HS, 3.75 psf (180 Pa)

* + - * 1. Structural Test Pressure: Positive/negative structural test pressure without damage when tested according to ASTM E 330:

R-PG-R20-HS, plus/minus 30.0 psf (plus/minus 1440 Pa).

R-PG-R25-HS, plus/minus 37.5 psf (plus/minus 1800 Pa)

* + - * 1. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
			1. Hardware
				1. Style

Sash Lock.

Tilt Latch.

* + - * 1. Color:

\*\* NOTE TO SPECIFIER \*\* Select the color required from the following paragraphs. Delete the paragraphs not required.

Tan.

White.

Rustic Bronze.

Brushed Nickel.

Bright brass.

Black.

* + - 1. Screen consisting of .019 inch (0.5 mm) thick formed aluminum frame with baked-on acrylic coating, injection molded vinyl corner keys.

\*\* NOTE TO SPECIFIER \*\* NOTE TO SPECIFIER \*\* Select one of the following two mesh paragraphs and delete the one not required.

* + - * 1. Mesh, High-Visibility, No See-um.
				2. Mesh, Aluminum Non-glare.
				3. Frame finish: Matches exterior frame/sash.
		1. Aluminum Clad Wood Direct Set Special Shapes Windows: Weather Shield Premium Series Model 8306/8607:
			1. Performance:
				1. AAMA/WDMA/CSA 101/I.S.2/A440-11 and AAMA/WDMA/CSA 101/I.S.2/A440-08:

1-Wide Direct Set Rating: CW-PG60-FW 8306; jamb size tested 95-1/2 inches by 71-1/2 inches (2426 mm by 1816 mm).

2-Wide Direct Set Rating: LC-PG50-FW 8306; individual jamb size tested 83-1/2 inches by 71-1/2 inches (2121 mm by 1816 mm).

1-Wide Direct Set Rating: CW-PG70-FW 8306; jamb size tested 84-1/2 inches by 107-1/2 inches (2146 mm by 2730 mm). tempered

1-Wide Direct Set Rating: CW-PG80-FW 8306; jamb size tested 141-1/2 inches by 63-1/2 inches (2427 mm by 1613 mm). tempered

1-Wide Direct Set Rating: CW-PG65-FW 8307; jamb size tested 83-1/2 inches by 89-1/2 inches (2121 mm by 2273 mm) tempered

1-Wide Direct Set Rating: CW-PG80-FW 8307; jamb size tested 143-1/2 inches by 51-1/2 inches (3645 mm by 1308 mm). tempered

* + - * 1. Vertical mull, mulled and applied rating: LC50.
				2. Air Infiltration: 0.30 cfm/ft2
				3. Water Performance:

CW-PG60-FW 9.00 psf (432 Pa)

LC-PG50-FW 7.50 psf (360 Pa)

CW-PG70-FW 10.5 psf (504 Pa)

CW-PG65-FW 9.75 psf (468 Pa)

CW-PG80-FW 12.0 psf (576 Pa)

* + - * 1. Structural Test Pressure:

CW-PG60-FW plus/minus 90.0 psf (plus/minus 4309.2 Pa).

LC-PG50-FW plus/minus 75 psf (3600 Pa)

CW-PG70-FW plus/minus 105 psf (5040 Pa)

CW-PG65-FW plus/minus 97.5 psf (4680 Pa)

CW-PG80-FW plus/minus 120 psf (5760 Pa)

* + - * 1. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
			1. Special Shapes:

\*\* NOTE TO SPECIFIER \*\* Select the special shape(s) required from the following paragraphs. Delete the paragraphs not required.

* + - * 1. Half Circle
				2. Quarter Circle
				3. Eyebrow with Legs
				4. Quarter Eyebrow
				5. Triangle Left
				6. Triangle Right
				7. Octagon
				8. Half Circle with Legs
				9. Quarter Circle with Legs
				10. Trapezoid
				11. Pentagon
				12. Rectangle
				13. Arch Top
				14. Diamond
				15. Hexagon
				16. Parallelogram
				17. Triangle
				18. Full Circle
				19. Custom shapes.
			1. Simulated Sash Option:

\*\* NOTE TO SPECIFIER \*\* Select the simulated sash required from the following s paragraphs. Delete the paragraphs not required.

* + - * 1. Double hung style
				2. Casement style

\*\* NOTE TO SPECIFIER \*\* Select the window materials and finishes required from the following paragraphs. Delete the paragraphs not required.

* + 1. Wood Frame Materials:
			1. Exterior frame members pine, kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative.
			2. Exterior frame clad with .050 inch (1.3 mm) thick extruded aluminum with an integral extruded nailing fin.
			3. Interior frame materials: Kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative. Milled from:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Pine is standard. Delete the paragraphs not required.

* + - * 1. Natural Pine (Standard).
				2. Douglas Fir.
				3. Character Alder.
				4. Maple.
				5. Oak.
				6. Cherry.
				7. Mahogany.
		1. Wood Sash Materials:
			1. Exterior sash shall be composed of two materials, an extruded aluminum exterior of .050 inch (1.3 mm) thickness, mechanically bonded to the interior wood substrate.
			2. Interior sash materials to be kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative. Milled from:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Pine is standard. Delete the paragraphs not required.

* + - * 1. Natural Pine (Standard).
				2. Douglas Fir.
				3. Character Alder.
				4. Maple.
				5. Oak.
				6. Cherry.
				7. Mahogany.
		1. Frame and Sash Finish:
			1. Exterior Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs and colors not required.

Standard Colors:

White.

Cameo.

Tan.

Desert Tan.

Heritage Brown.

Adobe.

Craftsman Bronze.

Brick Red.

Hartford Green.

Obsidan.

Jet Black.

Gray Matters.

Radiant Metallic Colors:

Classic Copper.

Warm Silver.

Antique Silver.

Espresso.

Simulated Steel.

Textured Black.

Textured Dark Bronze.

Textured Slate.

Textured Weathered Steel.

Designer Colors: As selected by the Architect from 45 colors available.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Clear.

Champagne.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

Copper.

* + - 1. Interior Wood Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs and colors not required.

* + - * 1. Clear Treated Wood
				2. Stained/Sealed Wood.

Clear Satin.

Golden Oak.

Fruitwood.

Chestnut.

Rich Mahogany.

* + - * 1. Designer Stained/Sealed Wood.

Harvest Wheat.

Caramel.

Ember.

Acorn.

Merlot

Thatch Brown.

Chocolate.

Rich Coffee.

Ebony.

Greystone.

* + - * 1. Primed Wood.
				2. Prefinished White Wood.
				3. Prefinished Black Wood.
		1. Glazing: Select quality complying with ASTM C 1036. Insulating glass IGCC certified to performance level CBA when tested in accordance with ASTM E 2190.
			1. Glass type:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required. Inert airspace gases not available in all states. Please check with your dealer for availability.

* + - * 1. Insulated: Two panes of glass.
				2. Insulated Low E2 with Argon Gas: Two panes of glass; One Low E 272 surface; Argon gas filled insulating air space.
				3. Insulated Low E2 240 with Argon Gas: Two panes of glass; One Low E 240 surface; argon gas filled insulating air space..
				4. Triple Insulated Low E2 with Argon Gas: Three panes of glass; One Low E 272 surface; argon gas filled insulating air space.
				5. Zo-e-shield 5: Two panes of glass; One multi-layer Low E coating; One argon gas filled insulating airspace.
				6. Zo-e-shield 5 Extreme: Two panes of glass; One multi-layer Low E coating; One argon gas filled insulating airspace; Extreme Low E Interior Coating.
				7. Zo-e-shield 6: One pane of glass and one laminated pane; One multi-layer Low E coating; One argon gas filled insulating airspace.
				8. Zo-e-shield 7: Three panes of glass; One multi-layer Low E coating; One additional Low E coating; Two argon gas filled insulating airspaces.
				9. Zo-e-shield Safeguard: Provides a reinforced layer of protection with0.030 gauge PVB laminated between two panes of annealed glass.
				10. Zo-e-shield Safeguard Certified: Contains a .060 gauge PVB laminated inter layer and meets ASTM F 1233 for increased resistance against certain impacts, thermal stress and chemical deterioration.
				11. Neat Clean Glass: Exterior glass coating sheets water off to keep glass cleaner longer
			1. Glass siliconed at sash exterior to allow reglazing from the interior with wood glazing bead.

\*\* NOTE TO SPECIFIER \*\* Select the optional grills/divided lites type as required from the following four paragraphs. Delete the paragraphs not required.

* + 1. Grilles:
			1. Wood Removable Grille: Frame design that snaps securely into the interior sash using a concealed pin system with species and finish to match sash.
				1. Grilles are 7/8 inch profile
				2. Pattern:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Rectangular

Prairie

Custom design as indicated.

* + - 1. Grille Between the Glass: Aluminum muntin bars in between two panes of insulating glass.

\*\* NOTE TO SPECIFIER \*\* Select The Grill, Pattern and Single Color or Two Tone Color required from the following paragraphs. Delete the paragraphs not required.

* + - * 1. Grill:

11/16 inch sculptured profile.

5/8 inch flat profile.

* + - * 1. Pattern:

Rectangular

Prairie

Diamond (5/8 inch flat only)

Custom as indicated

* + - * 1. Single Color:

White

Adobe

Cameo

Desert tan

Tan

Hartford green

Jet black

Craftsman bronze

Brick red

Heritage brown

Obsidian

* + - * 1. Two Tone Color:

Adobe / White interior

Cameo / White Interior

Desert Tan / White interior

Tan / White Interior

Hartford Green / White Interior

Jet Black / White Interior

Craftsman Bronze / White Interior

Brick Red / White Interior

Heritage Brown White Interior

Obsidian / White Interior

* + - 1. Simulated Divided Lites with Aluminum Spacer Between the Glass: Surface applied to the exterior and interior glass surfaces and with aluminum spacers in between two panes of insulating glass.

\*\* NOTE TO SPECIFIER \*\* Select one exterior profile and size from the following paragraph.

* + - * 1. Putty Exterior Aluminum Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

\*\* NOTE TO SPECIFIER \*\* Select one interior profile and the size as required from the following two paragraphs. Delete the paragraph not required.

* + - * 1. Putty Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Colonial Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Square Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - 1. Simulated Divided Lites: Surface applied to the exterior and interior glass surfaces.

\*\* NOTE TO SPECIFIER \*\* Select one exterior profile and size from the following paragraph.

* + - * 1. Putty Exterior Aluminum Profile with finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

\*\* NOTE TO SPECIFIER \*\* Select one interior profile and the size as required from the following two paragraphs. Delete the paragraph not required.

* + - * 1. Putty Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Colonial Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Square Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

\*\* NOTE TO SPECIFIER \*\* Select the Accessories and Trim required from the following paragraphs. Delete the paragraphs not required.

* + 1. Accessories and Trim
			1. Exterior Trim and Accessories: Aluminum finished to match adjacent window frame and sash.

\* NOTE TO SPECIFIER \*\* Select one or more of the following accessory paragraphs. Delete the paragraphs not required. Note that other special shape are available as shown on the manufacturer's website. Custom profile subject to approval of Weather Shield.

* + - * 1. 1-11/16 inch Aluminum Brickmould.
				2. 7/8 inch Aluminum Brickmould.
				3. 3-5/16 inch Aluminum Historic Brickmould
				4. 1-11/16 inch Aluminum Flat Casing.
				5. 3-5/16 inch Aluminum Flat Casing.
				6. 3/4 inch Bull Nose.
				7. 1 inch Bull Nose.
				8. 2 inch Bull Nose.
				9. 1 inch Full Round Bull Nose.
				10. Other \_\_\_\_\_\_\_\_\_
			1. Interior Wood Trim and Accessories:

\*\* NOTE TO SPECIFIER \*\* Select one of the following size/type paragraphs. Delete the paragraphs not required.

* + - * 1. WM327 (2-1/4 inch).
				2. WM356 (2-1/4 inch).
				3. WM366 (2-1/4 inch).
				4. WM376 (2-1/4 inch).
				5. WM351 (2-1/2 inch).
				6. WM444 (3-1/4 inch).
				7. WM445 (3-1/4 inch).
				8. Windsor Casing (3-1/2 inch).
				9. Flat Casing (Varies).
			1. Interior trim materials: Kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative. Milled from:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Pine is standard. Delete the paragraphs not required.

* + - * 1. Natural Pine (Standard).
				2. Douglas Fir.
				3. Character Alder.
				4. Maple.
				5. Oak.
				6. Cherry.
				7. Mahogany.
			1. Interior Wood Trim Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required. Interior trim does not have to match window finish.

* + - * 1. Species and finish to match sash.
				2. Clear Treated Wood
				3. Stained/Sealed Wood Clear Satin.
				4. Stained/Sealed Wood Golden Oak.
				5. Stained/Sealed Wood Fruitwood.
				6. Stained/Sealed Wood Chestnut.
				7. Stained/Sealed Wood Rich Mahogany.
				8. Primed Wood
				9. Prefinished White Wood

\*\* NOTE TO SPECIFIER \*\* Select the optional jamb extension if required from the following paragraphs. Jamb extensions are available up to and including 12 inches (305 mm) of overall jamb depth. Delete if not required.

* + - 1. Jamb Extensions

\*\* NOTE TO SPECIFIER \*\* Edit the following paragraphs as required. Delete those not required.

* + - * 1. Provide frames with jamb extensions of the size indicated.
				2. Provide extensions factory applied (standard)
				3. Provide extensions shipped loose.
				4. Provide extensions to match interior frame finish.
				5. Provide extensions with interior saw kerf.
	1. ALUMINUM CLAD WOOD SLIDING PATIO DOORS
		1. Aluminum Clad Wood Sliding Doors: Weather Shield Premium Series Model 8714:
			1. Performance:
				1. AAMA/WDMA/CSA 101/I.S.2/A440-08:

Rating: LC-PG35-SD, 101-1/4 inches by 82-1/8 inches jamb size tested with two-point lock.

* + - * 1. Air Infiltration: 0.30 cfm/ft2
				2. Water Performance: 5.25 psf (252 Pa).
				3. Structural Test Pressure:

Rating: plus/minus 52.5 psf (2520 Pa).

* + - * 1. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
			1. Door Stile Thickness:
				1. 1-3/4 inches (44 mm).
			2. Frame Depth:
				1. 5-13/16 inches (148 mm).
				2. Head and side jamb thickness 1-1/16 inch (27 mm).
			3. Sill Type:
				1. Standard 2-7/16 inch (62 mm).
			4. Construction:
				1. Exterior members pine, kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative.
				2. Exterior frame clad with .055 inch (1.4 mm) thick extruded aluminum with an integral extruded nailing fin.
				3. Interior materials: Kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative. Milled from:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Pine is standard. Delete the paragraphs not required.

Natural Pine (Standard).

Douglas Fir.

Character Alder.

Maple.

Oak.

Cherry.

Mahogany.

* + - * 1. Door stiles fabricated of wood veneer over wood substrate connected with 3/4 inch wood dowels and clad with .050 inch aluminum.
		1. Aluminum Clad Wood Sliding Doors: Weather Shield Premium Series French Model 8715:
			1. Performance:
				1. AAMA/WDMA/CSA 101/I.S.2/A440-08:

Rating: LC-PG55-SD, 95-9/16 inches by 98 inches jamb size tested with two-point lock.

* + - * 1. Structural Test Pressure:

Rating: plus/minus 82.5 psf (3690 Pa).

* + - * 1. Water Performance: 8.25 psf (396 Pa).
				2. Air Infiltration: 0.30 cfm/ft2
				3. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
			1. Door Stile Thickness:
				1. 1-3/4 inches (44 mm).
			2. Frame Depth:
				1. 5-13/16 inches (148 mm).
				2. Head and side jamb thickness 1-1/16 inch (27mm).
			3. Sill Type:
				1. Standard 2-7/16 inch (62 mm).
			4. Construction:
				1. Exterior members pine, kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative.
				2. Exterior frame clad with .055 inch (1.4 mm) thick extruded aluminum with an integral extruded nailing fin.
				3. Interior materials: Kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative. Milled from:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Pine is standard. Delete the paragraphs not required.

Natural Pine (Standard).

Douglas Fir.

Character Alder.

Maple.

Oak.

Cherry.

Mahogany.

* + - * 1. Door stiles fabricated of laminated wood connected with 3/4 inch wood dowels and clad with .050 inch aluminum.
		1. Aluminum Clad Door Finishes:
			1. Exterior Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.

Standard Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

White.

Cameo.

Tan.

Desert Tan.

Heritage Brown.

Adobe.

Craftsman Bronze.

Brick Red.

Hartford Green.

Obsidan.

Jet Black.

Gray Matters.

Radiant Metallic Colors:

Classic Copper.

Warm Silver.

Antique Silver.

Espresso.

Simulated Steel:

Textured Black.

Textured Dark Bronze.

Textured Slate.

Textured Weathered Steel.

Designer Colors: As selected by the Architect from 45 colors available.

* + - * 1. Anodized Clad Exterior anodized aluminum finish: electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Clear.

Champagne.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

Copper.

\*\* NOTE TO SPECIFIER \*\* Interior wood finish is optional. Delete if not required.

* + - 1. Interior Wood Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs and colors not required.

* + - * 1. Clear Treated Wood.
				2. Stained/Sealed Wood:

Clear Satin.

Golden Oak.

Fruitwood.

Chestnut.

Rich Mahogany.

* + - * 1. Designer Stained/Sealed Wood:

Harvest Wheat.

Caramel.

Ember.

Acorn.

Merlot.

Thatch Brown.

Chocolate.

Rich Coffee.

Ebony.

Greystone.

* + - * 1. Primed Wood.
				2. Prefinished White Wood.
				3. Prefinished Black Wood.
		1. Glazing: Select quality complying with ASTM C 1036. Insulating glass IGCC certified to performance level CBA when tested in accordance with ASTM E 2190.
			1. Glass type: Fully Tempered.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required. Inert airspace gases not available in all states. Please check with your dealer for availability.

* + - * 1. Insulated: Two panes of glass.
				2. Insulated Low E2 with Argon Gas: Two panes of glass; One Low E 272 surface; Argon gas filled insulating air space.
				3. Insulated Low E2 240 with Argon Gas: Two panes of glass; One Low E 240 surface; argon gas filled insulating air space.
				4. Triple Insulated Low E2 with Argon Gas: Three panes of glass; One Low E 272 surface; argon gas filled insulating air space.
				5. Zo-e-shield 5: Two panes of glass; One multi-layer Low E coating; One argon gas filled insulating airspace.
				6. Zo-e-shield 5 Extreme: Two panes of glass; One multi-layer Low E coating; One argon gas filled insulating airspace; Extreme Low E Interior Coating.
				7. Zo-e-shield 6: One pane of glass and one laminated pane; One multi-layer Low E coating; One argon gas filled insulating airspace.
				8. Zo-e-shield Safeguard: Provides a reinforced layer of protection with 0.030 gauge PVB laminated between two panes of annealed glass.
				9. Zo-e-shield Safeguard Certified: Contains a .060 gauge PVB laminated inter layer and meets ASTM F 1233 for increased resistance against certain impacts, thermal stress and chemical deterioration.
				10. Neat Clean Glass: Exterior glass coating sheets water off to keep glass cleaner longer
			1. Glass siliconed at panel exterior to allow reglazing from the interior with wood glazing bead.

\*\* NOTE TO SPECIFIER \*\* Select the optional grills/divided lites as required from the following three paragraphs. Delete the paragraphs not required.

* + 1. Grilles:
			1. Grille Between the Glass: Aluminum muntin bars in between two panes of insulating glass.

\*\* NOTE TO SPECIFIER \*\* Select The Grill, Pattern and Single Color or Two Tone Color required from the following paragraphs. Delete the paragraphs not required.

* + - * 1. Grill:

11/16 inch sculptured profile.

5/8 inch flat profile.

* + - * 1. Pattern:

Rectangular

Prairie

Diamond (5/8 inch flat only)

Custom as indicated

* + - * 1. Single Color:

White

Adobe

Cameo

Desert tan

Tan

Hartford green

Jet black

Craftsman bronze

Brick red

Heritage brown

Obsidian

* + - * 1. Two Tone Color:

Adobe / White interior

Cameo / White Interior

Desert Tan ? White interior

Tan / White Interior

Hartford Green / White Interior

Jet Black / White Interior

Craftsman Bronze / White Interior

Brick Red / White Interior

Heritage Brown White Interior

Obsidian / White Interior

* + - 1. Simulated Divided Lites with Aluminum Spacer Between the Glass: Surface applied to the exterior and interior glass surfaces and with aluminum spacers in between two panes of insulating glass.

\*\* NOTE TO SPECIFIER \*\* Select one exterior profile and size from the following paragraph.

* + - * 1. Putty Exterior Aluminum Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

\*\* NOTE TO SPECIFIER \*\* Select one interior profile and the size as required from the following two paragraphs. Delete the paragraph not required.

* + - * 1. Putty Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Colonial Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Square Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - 1. Simulated Divided Lites: Surface applied to the exterior and interior glass surfaces.

\*\* NOTE TO SPECIFIER \*\* Select one exterior profile and size from the following paragraph.

* + - * 1. Putty Exterior Aluminum Profile with finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

\*\* NOTE TO SPECIFIER \*\* Select one interior profile and the size as required from the following two paragraphs. Delete the paragraph not required.

* + - * 1. Putty Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Colonial Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Square Interior Wood Profile with species and finish to match sash:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + 1. Multipoint Lock:
			1. Type:

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

* + - * 1. Two point lock, steel mortise lock and keeper.
				2. Two point lock, stainless steel mortise lock and keeper
				3. Three point lock, stainless steel mortise lock and keeper.

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

Arched Escutcheon Plate

Square Escutcheon Plate

* + - 1. Handle Finish:

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

* + - * 1. Chrome.
				2. Brushed Nickel PVD.
				3. Oil Rubbed Bronze.
				4. Black.
				5. Antique Brass.
				6. Bright Brass PVD.
		1. Sliding Door Hardware:

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

* + - 1. Adjustable dual tandem zinc dichromate steel rollers.
			2. Adjustable dual tandem stainless steel rollers
		1. Screen:
			1. Frame consisting of .045 inch (1.1 mm) thick formed aluminum frame with baked-on acrylic coating, mitered corners.

\*\* NOTE TO SPECIFIER \*\* NOTE TO SPECIFIER \*\* Select one of the following two screen paragraphs. Delete the paragraph not required.

* + - 1. High-Visibility, No See-um Mesh
			2. Aluminum Non-glare Mesh
			3. Frame finish: Matches exterior frame/panels.

\*\* NOTE TO SPECIFIER \*\* Select the Accessories and Trim required from the following paragraphs. Delete the paragraphs not required.

* + 1. Accessories and Trim
			1. Exterior Trim and Accessories: Aluminum finished to match door frame and sash.

\* NOTE TO SPECIFIER \*\* Select one of the following accessory paragraphs. Delete the paragraphs not required. Note that other special shape are available as shown on the manufacturer's website. Custom profile subject to approval of Weather Shield.

* + - * 1. 1-11/16 inch Aluminum Brickmould.
				2. 7/8 inch Aluminum Brickmould.
				3. 3-5/16 inch Aluminum Historic Brickmould
				4. 1-11/16 inch Aluminum Flat Casing
				5. 3-5/16 inch Aluminum Flat Casing.
			1. Interior Wood Trim and Accessories with species and finish to match sash::

\*\* NOTE TO SPECIFIER \*\* Select one or more of the following size/type paragraphs. Delete the paragraphs not required.

* + - * 1. WM327 (2-1/4 inch).
				2. WM356 (2-1/4 inch).
				3. WM366 (2-1/4 inch).
				4. WM376 (2-1/4 inch).
				5. WM351 (2-1/2 inch).
				6. WM444 (3-1/4 inch).
				7. WM445 (3-1/4 inch).
				8. Windsor Casing (3-1/2 inch).
				9. Flat Casing (Varies).
			1. Interior trim materials: Kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative. Milled from:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Pine is standard. Delete the paragraphs not required.

* + - * 1. Natural Pine (Standard).
				2. Douglas Fir.
				3. Character Alder.
				4. Maple.
				5. Oak.
				6. Cherry.
				7. Mahogany.
			1. Interior Wood Trim Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs and colors not required. Interior trim does not have to match window finish.

* + - * 1. Species and finish to match sash.
				2. Clear Treated Wood.
				3. Stained/Sealed Wood:

Clear Satin.

Golden Oak.

Fruitwood.

Chestnut.

Rich Mahogany.

* + - * 1. Designer Stained/Sealed Wood:

Harvest Wheat.

Caramel.

Ember.

Acorn.

Merlot.

Thatch Brown.

Chocolate.

Rich Coffee.

Ebony.

Greystone.

* + - * 1. Primed Wood.
				2. Prefinished White Wood.
				3. Prefinished Black Wood.

\*\* NOTE TO SPECIFIER \*\* Select the optional jamb extension if required from the following paragraphs. Jamb extensions are available up to and including 12 inches (305 mm) of overall jamb depth. Delete if not required.

* + - 1. Jamb Extensions

\*\* NOTE TO SPECIFIER \*\* Edit the following paragraphs as required. Delete those not required.

* + - * 1. Provide frames with jamb extensions of the size indicated.
				2. Provide extensions factory applied (standard)
				3. Provide extensions shipped loose.
				4. Provide extensions to match interior frame finish.
				5. Provide extensions with interior saw kerf.
	1. ALUMINUM CLAD WOOD SWING PATIO DOORS
		1. Aluminum Clad Wood Swing Doors: Weather Shield Premium Series Aluminum Clad Swing Patio Doors, Models 8510, 8610, 8511, 8611:
			1. Performance:
				1. AAMA/WDMA/CSA 101/I.S.2/A440-08:

\*\* NOTE TO SPECIFIER \*\* Select the rating(s) for the model(s) required from the following paragraphs and delete those not required

Rating: 8510 Inswing 1-3/4 inch panel French door;

LC-PG40-SHD; 73-11/16 inches by 99-3/32 inches jamb size, tested with standard sill, 3-point lockset, handle activated flush-bolt and adjustable hinges.

LW LC-PG40-SHD; 73-11/16 inches by 86-1/32 inches jamb size, tested with standard sill, 3-point lockset, manual flush-bolt and butt hinges.

LC-PG25-SHD; 37-17/32 inches by 99-3/32 inches jamb size, tested with standard sill, single point lock and adjustable hinges.

Rating: 8610 Outswing 1-3/4 inch panel French door

LC-PG50-SHD; 73-11/16 inches by 99-3/32 inches jamb size tested with standard sill, 3-point lockset, handle activated flush-bolt and adjustable hinges.

LC-PG50-SHD; 73-11/16 inches by 86-1/32 inches jamb size tested with standard sill, 3-point lock, manual flush-bolt and butt hinges.

LC-PG45-SHD; 73-11/16 inches by 98-15/32 inches jamb size tested with low-profile sill, 3-point lock, handle activated flush-bolt and adjustable hinges.

LW LC-PG30-SHD; 73-11/16 inches by 86-1/32 inches jamb size tested with standard sill, single point lock, manual flush-bolt and butt hinges.

[LC-PG40-SHD; 37-17/32 inches by 99-3/32 inches jamb size tested with standard sill, single point lock and adjustable hinges.

Rating: 8511 Inswing 2-1/4 inch panel French door

LW LC-PG40-SHD; 73-11/16 inches by 99-3/32 inches jamb size tested with standard sill, 3-point lockset, manual flush-bolt and adjustable hinges.

Rating: 8611 Outswing 2-1/4 inch panel French door

LC-PG50-SHD; 73-11/16 inches by 99-3/32 inches jamb size tested with standard sill, 3-point lockset, manual flush-bolt and adjustable hinges.

* + - * 1. Air Infiltration: 0.30 cfm/ft2
				2. Water Infiltration:

LW LC-PG30-SHD 2.86 psf (138 Pa)

LW LC-PG40-SHD 3.75 psf (180 Pa)

LC-PG25-SHD 3.75 psf (180Pa)

LC-PG40-SHD 6.00 psf (288 Pa)

LC-PG45-SHD 6.75 psf (324 Pa)

LC-PG50-SHD 7.50 psf (360 Pa)

* + - * 1. Uniform Load Structural:

LW LC-PG30-SHD, plus or minus 45.0 psf (2160 Pa)

LC-PG25-SHD, plus or minus 37.5 psf (1800 Pa)

LC-PG40-SHD / LW LC-PG40-SHD, plus or minus 60.0 psf (2880 Pa)

LC-PG45-SHD, plus or minus 67.5 psf (3240 Pa)

LC-PG50-SHD, plus or minus 75.0 psf (3300 Pa)

* + - * 1. Forced Entry Resistance: Grade 10 to meet requirements set forth in ASTM F 588.
			1. Construction:
				1. Exterior members pine, kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative.
				2. Exterior frame clad with .050 inch (1.3 mm) thick extruded aluminum with an integral extruded nailing fin.
				3. Interior materials: Kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative. Milled from:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Pine is standard. Delete the paragraphs not required.

Natural Pine (Standard).

Douglas Fir.

Character Alder.

Maple.

Oak.

Cherry.

Mahogany.

* + - * 1. Door stiles fabricated of laminated veneer lumber on lock stile and block core on hinge style connected with 3/4 inch wood dowels. Stiles clad with .055 inch (1.4 mm) thick aluminum.
			1. Frame Depth:
				1. 5-13/16 inches (147.6 mm).
			2. Sill Type:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

* + - * 1. In Swing Standard 1-15/16 inch Sill.
				2. Out Swing Standard 2-13/16 inch Sill.
				3. Out Swing Low Profile 2 inch Sill.
				4. Out Swing Sill (ADA).
				5. In Swing Sill (ADA).
			1. Exterior Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs and colors not required.

Standard Colors:

White.

Cameo.

Tan.

Desert Tan.

Heritage Brown.

Adobe.

Craftsman Bronze.

Brick Red.

Hartford Green.

Obsidan.

Jet Black.

Gray Matters.

Radiant Metallic Colors:

Classic Copper.

Warm Silver.

Antique Silver.

Espresso.

Simulated Steel:

Textured Black.

Textured Dark Bronze.

Textured Slate.

Textured Weathered Steel.

Designer Colors: As selected by the Architect from 45 colors available.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Clear.

Champagne.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

Copper.

* + - 1. Interior Wood Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs and colors not required.

* + - * 1. Stained/Sealed Wood.

Clear Satin.

Golden Oak.

Fruitwood.

Chestnut.

Rich Mahogany.

* + - * 1. Designer Stained/Sealed Wood.

Harvest Wheat

Caramel

Ember

Acorn

Merlot

Thatch Brown

Chocolate

Rich Coffee

Ebony

Greystone

* + - * 1. Primed Wood
				2. Prefinished White Wood
				3. Prefinished Black Wood
		1. Glazing: Select quality complying with ASTM C 1036. Insulating glass IGCC certified to performance level CBA when tested in accordance with ASTM E 2190.
			1. Glass type: Fully Tempered

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required. Inert airspace gases not available in all states. Please check with your dealer for availability.

* + - * 1. Insulated: Two panes of glass.
				2. Insulated Low E2 with Argon Gas: Two panes of glass; One Low E 272 surface; Argon gas filled insulating air space.
				3. Insulated Low E2 240 with Argon Gas: Two panes of glass; One Low E 240 surface; argon gas filled insulating air space.
				4. Triple Insulated Low E2 with Argon Gas: Three panes of glass; One Low E 272 surface; argon gas filled insulating air space.
				5. Zo-e-shield 5: Two panes of glass; One multi-layer Low E coating; One argon gas filled insulating airspace.
				6. Zo-e-shield 5 Extreme: Two panes of glass; One multi-layer Low E coating; One argon gas filled insulating airspace; Extreme Low E Interior Coating.
				7. Zo-e-shield 6: One pane of glass and one laminated pane; One multi-layer Low E coating; One argon gas filled insulating airspace.
				8. Zo-e-shield 7: Three panes of glass; One multi-layer Low E coating; One additional Low E coating; Two argon gas filled insulating airspaces.
				9. Zo-e-shield Safeguard: Provides a reinforced layer of protection with 0.030 gauge PVB laminated between two panes of annealed glass.
				10. Zo-e-shield Safeguard Certified: Contains a .060 gauge PVB laminated inter layer and meets ASTM F 1233 for increased resistance against certain impacts, thermal stress and chemical deterioration.
				11. Neat Clean Glass: Exterior glass coating sheets water off to keep glass cleaner longer
			1. Glass siliconed at panel exterior to allow reglazing from the interior with wood glazing bead.

\*\* NOTE TO SPECIFIER \*\* Select the optional grills/divided lites as required from the following four paragraphs. Delete the paragraphs not required.

* + 1. Grilles:
			1. Wood Removable Grille: Frame design that snaps securely into the interior sash using a concealed pin system with species and finish to match sash.
				1. Grilles are 7/8 inch profile
				2. Pattern:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

* + - * 1. Rectangular
				2. Prairie
				3. Custom design as indicated.
			1. Grille Between the Glass: Aluminum muntin bars in between two panes of insulating glass.

\*\* NOTE TO SPECIFIER \*\* Select The Grill, Pattern and Single Color or Two Tone Color required from the following paragraphs. Delete the paragraphs not required.

* + - * 1. Grill:

11/16 inch sculptured profile.

5/8 inch flat profile.

* + - * 1. Pattern:

Rectangular

Prairie

Diamond (5/8 inch flat only)

Custom as indicated

* + - * 1. Single Color:

White

Adobe

Cameo

Desert tan

Tan

Hartford green

Jet black

Craftsman bronze

Brick red

Heritage brown

Obsidian

* + - * 1. Two Tone Color:

Adobe / White interior

Cameo / White Interior

Desert Tan ? White interior

Tan / White Interior

Hartford Green / White Interior

Jet Black / White Interior

Craftsman Bronze / White Interior

Brick Red / White Interior

Heritage Brown White Interior

Obsidian / White Interior

* + - 1. Simulated Divided Lites with Aluminum Spacer Between the Glass: Surface applied to the exterior and interior glass surfaces and with aluminum spaces in between two panes of insulating glass.

\*\* NOTE TO SPECIFIER \*\* Select one exterior profile and size from the following paragraph.

* + - * 1. Putty Exterior Aluminum Profile with species and finish to match panel:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

\*\* NOTE TO SPECIFIER \*\* Select one interior profile and the size as required from the following two paragraphs. Delete the paragraph not required.

* + - * 1. Putty Interior Wood Profile with species and finish to match panel:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Colonial Interior Wood Profile with species and finish to match panel:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Square Interior Wood Profile with species and finish to match panel:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - 1. Simulated Divided Lites: Surface applied to the exterior and interior glass surfaces.

\*\* NOTE TO SPECIFIER \*\* Select one exterior profile and size from the following paragraph.

* + - * 1. Putty Exterior Aluminum Profile with finish to match panel:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

\*\* NOTE TO SPECIFIER \*\* Select one interior profile and the size as required from the following two paragraphs. Delete the paragraph not required.

* + - * 1. Putty Interior Wood Profile with species and finish to match panel:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Colonial Interior Wood Profile with species and finish to match panel:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + - * 1. Square Interior Wood Profile with species and finish to match panel:

2 inch.

1-1/8 inch.

7/8 inch.

5/8 inch.

* + 1. Multipoint Lock: Three point lock with shoot bolts on the top, bottom and middle.
			1. Escutcheon Plate Style:

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

* + - * 1. Arched Plate.
				2. Square Plate.
			1. Handle Finish:

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

* + - * 1. Chrome.
				2. Brushed Nickel PVD.
				3. Oil Rubbed Bronze.
				4. Black.
				5. Antique Brass.
				6. Bright Brass PVD.
			1. Flushbolts:

\*\* NOTE TO SPECIFIER \*\* For 2 panel doors select flushbolt style paragraph required and delete the one not required.

* + - * 1. Handle Activated.
				2. Manual.
		1. Hinges
			1. Type.

\*\* NOTE TO SPECIFIER \*\* Select hinge type paragraph required and delete those not required. Hinge type vary with door style specified. Contact manufacturer for additional information.

* + - * 1. Adjustable; four 4 inch by 4 inch (102 mm by 102 mm) radius corner hinges per panel.
				2. Ball bearing butt; four 4 inch by 4 inch (102 mm by 102 mm) radius corner hinges per panel.
				3. Spring loaded; (inswing doors only up to and including 6-10 callout heights) four 4 inch by 4 inch (102 mm by 102 mm) radius corner hinges per panel.
			1. Hinge Finish:

\*\* NOTE TO SPECIFIER \*\* Select hinge finish paragraph required and delete those not required. Not all finishes are available in all hinge type. Verify with manufacturer.

* + - * 1. Chrome.
				2. Brushed Nickel.
				3. Oil Rubbed Bronze.
				4. Black.
				5. Antique Brass.
				6. Bright Brass.
				7. Stainless Steel
		1. Weather stripping:

\*\* NOTE TO SPECIFIER \*\* Select inswing or outswing from the following paragraphs. Delete the paragraph not required.

* + - 1. Inswing doors have beige foam-filled vinyl weather stripping at head, astragal and side jambs providing two points of contact with the panel.
			2. Outswing doors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

* + - * 1. Standard and Low profile sill: Beige foam-filled vinyl weather stripping at head jamb, side jambs, astragal and sill shall provide two points of contact with the panel. Pile weather strip (white for white exterior doors; black for all other color exterior doors) at head jamb and side jambs. Beige vinyl bulb weather strip at top rail of door panels.
				2. ADA-compliant sill: Beige foam-filled vinyl weather stripping at head, astragal and side jambs shall provide two points of contact with the panel. Pile weather strip (white for white exterior doors; black for all other color exterior doors) at head jamb and side jambs. Beige vinyl bulb weather strip at top rail of door panels.
			1. Door panel Include adobe vinyl sill sweep with drip edge with minimum four points of contact.

\*\* NOTE TO SPECIFIER \*\* Select the Accessories and Trim required from the following paragraphs. Delete the paragraphs not required.

* + 1. Accessories and Trim
			1. Exterior Trim and Accessories: Aluminum finished to match door frame and panel.

\* NOTE TO SPECIFIER \*\* Select one of the following accessory paragraphs. Delete the paragraphs not required. Note that other special shape are available as shown on the manufacturer's website. Custom profile subject to approval of Weather Shield.

* + - * 1. 1-11/16 inch Aluminum Brickmould.
				2. 7/8 inch Aluminum Brickmould.
				3. 3-5/16 inch Aluminum Historic Brickmould
				4. 1-11/16 inch Aluminum Flat Casing
				5. 3-5/16 inch Aluminum Flat Casing.
			1. Interior Wood Trim and Accessories:

\*\* NOTE TO SPECIFIER \*\* Select one or more of the following size/type paragraphs. Delete the paragraphs not required.

* + - * 1. WM327 (2-1/4 inch).
				2. WM356 (2-1/4 inch).
				3. WM366 (2-1/4 inch).
				4. WM376 (2-1/4 inch).
				5. WM351 (2-1/2 inch).
				6. WM444 (3-1/4 inch).
				7. WM445 (3-1/4 inch).
				8. Windsor Casing (3-1/2 inch).
				9. Flat Casing (Varies).
			1. Interior trim materials: Kiln dried to a moisture content of 6-12 percent at the time of fabrication and treated with a water-repellent preservative. Milled from:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Pine is standard. Delete the paragraphs not required.

* + - * 1. Natural Pine (Standard).
				2. Douglas Fir.
				3. Character Alder.
				4. Maple.
				5. Oak.
				6. Cherry.
				7. Mahogany.
			1. Interior Wood Trim Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required. Interior trim does not have to match window finish.

* + - * 1. Species and finish to match sash.
				2. Stained/Sealed Wood:

Clear Satin.

Golden Oak.

Fruitwood.

Chestnut.

Rich Mahogany.

* + - * 1. Designer Stained/Sealed Wood:

Harvest Wheat

Caramel.

Ember.

Acorn.

Merlot.

Thatch Brown.

Chocolate.

Rich Coffee.

Ebony.

Greystone.

* + - * 1. Primed Wood.
				2. Prefinished White Wood.
				3. Prefinished Black Wood.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions.
		2. Install window and door units plumb, level and square with no distortion of frame members.
		3. Use anchorage devices to securely fasten door assembly to wall construction without distortion or imposed stresses.
		4. Fill perimeter frame to wall opening cavity with batt insulation. Do not use expansive foam insulation.
		5. Apply approved sealant in accordance with Section 07 90 00 - Joint Protection
		6. Installation of door lock cylinder hardware is specified in Section 08 71 00 - Door Hardware.
		7. Do not puncture prefinished exterior surfaces. Refer to installation instructions for complete installation recommendations.
	4. ADJUSTING AND CLEANING
		1. Adjust operating sash and hardware to provide tight fit at contact points and at the weather stripping for smooth 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. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.
	2. 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. W1: Size 36 by 60 inch (900 by 1520 mm) Premium Series Wood Double-Hung Tilt Windows.
		2. East Elevation:
			1. Opening No. W10: Size 36 by 60 inch (900 by 1520 mm) Weather Shield Premium Series Wood Awning Windows.

END OF SECTION