

Milgard Style Line™ Series Vinyl Window 3-Part Specification

6000
SERIES
STYLE LINE VINYL

GENERAL NOTES TO SPECIFIER:

THIS SPECIFICATION SECTION HAS BEEN PREPARED TO ASSIST DESIGN PROFESSIONALS IN THE PREPARATION OF PROJECT OR OFFICE MASTER SPECIFICATIONS. IT FOLLOWS GUIDELINES ESTABLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE, AND THEREFORE MAY BE USED WITH MOST MASTER SPECIFICATION SYSTEMS WITH MINOR EDITING.

EDIT CAREFULLY TO SUIT PROJECT REQUIREMENTS. MODIFY AS NECESSARY AND DELETE ITEMS THAT ARE NOT APPLICABLE. VERIFY THAT REFERENCED SECTION NUMBERS AND TITLES ARE CORRECT. (NUMBERS AND TITLES REFERENCED ARE BASED ON MASTERFORMAT, 2004 EDITION).

THIS SECTION ASSUMES THE PROJECT MANUAL WILL CONTAIN COMPLETE DIVISION 1 DOCUMENTS INCLUDING 01 25 13 – PRODUCT SUBSTITUTION PROCEDURES, SECTIONS 01 33 00 – SUBMITTAL PROCEDURES, 01 62 00 – PRODUCT OPTIONS, 01 66 00 – PRODUCT STORAGE AND HANDLING REQUIREMENTS, 01 74 00 – CLEANING AND WASTE MANAGEMENT, 01 77 00 – CLOSEOUT PROCEDURES, AND 01 78 00 – CLOSEOUT SUBMITTALS. CLOSE COORDINATION WITH DIVISION 1 SECTIONS IS REQUIRED. IF THE PROJECT MANUAL DOES NOT CONTAIN THESE SECTIONS, ADDITIONAL INFORMATION SHOULD BE INCLUDED UNDER THE APPROPRIATE ARTICLES.

THIS IS AN OPEN PROPRIETARY SPECIFICATION ALLOWING USERS THE OPTION OF APPROVING OTHER MANUFACTURERS THAT COMPLY WITH THE CRITERIA SPECIFIED HEREIN.

NOTES TO THE SPECIFIER ARE CONTAINED IN BOXES AND SHOULD BE DELETED FROM FINAL COPY.

OPTIONAL ITEMS REQUIRING SELECTION BY THE SPECIFIER ARE ENCLOSED WITHIN BRACKETS, E.G. [35] [40] [45]. MAKE APPROPRIATE SELECTIONS AND DELETE OTHERS.

ITEMS REQUIRING ADDITIONAL INFORMATION ARE UNDERLINED BLANK SPACES, E.G. _____.

OPTIONAL PARAGRAPHS REQUIRING SELECTION OF ONE OF THE OPTIONS ARE SEPARATED BY “OR” WITHIN A BOX, E.G.

OR

BOLD FACE TYPE IDENTIFIES OPTIONAL PARAGRAPHS AND FEATURES THAT MAY BE INCLUDED OR DELETED DEPENDING ON PROJECT REQUIREMENTS. CONVERT THE BOLD FACE TYPE TO REGULAR TYPE WHEN INCLUDING THESE PARAGRAPHS OR FEATURES.

REVISE FOOTER TO SUIT PROJECT/OFFICE REQUIREMENTS.

ELECTRONIC VERSIONS OF THIS SPECIFICATION UTILIZE AUTOMATIC PARAGRAPH NUMBERING.

WHEN EDITING IS COMPLETE, DELETE ALL TEXT ON THIS PAGE, THEN REMOVE THE SECTION BREAK AT THE TOP OF THE NEXT PAGE TO REMOVE THIS PAGE FROM THE DOCUMENT.

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SECTION 08 53 14

(MasterFormat 1995 Edition: 08562)

VINYL WINDOWS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Tubular extruded poly vinyl chloride (PVC) windows of the following type(s):
 - 1. **Horizontal Sliding windows.**
 - 2. **Single-Hung windows.**
 - 3. **Single-Hung Tilt windows (manufactured and distributed in markets east of the Mississippi only).**
 - 4. **Picture windows.**
 - 5. **Radius windows.**
 - 6. **Garden windows.**

- B. Related Sections:

INSERT APPROPRIATE SECTION NUMBERS AND TITLES BELOW FOR WINDOW FLASHING AND INSTALLATION SEALANT.

- 1. ____ - _____.
- 2. ____ - _____.
- 3. **08 32 17 - Vinyl Sliding Doors.**

INCLUDE APPROPRIATE LANGUAGE BELOW IF PRODUCTS SPECIFIED IN THIS SECTION ARE TO BE BID AS ALTERNATES. OTHERWISE DELETE FOLLOWING PARAGRAPH.

- C. Alternates:
 - 1. Reference Section 01 23 00 – Alternates.

1.02 SUBMITTALS

- A. Reference Section 01 33 00 – Submittal Procedures; submit following items:
 - 1. Product Data.
 - 2. Shop Drawings: Include window schedule, window elevations, sections and details, and multiple window assembly details.
 - 3. Samples:
 - a. Color samples: Minimum 1x4 inch (25x100 mm) samples of PVC with integral color.
 - b. **Glass, showing specified tint color.**
 - 4. Quality Assurance/Control Submittals:
 - a. Qualifications: Proof of manufacturer's qualifications.
 - b. **U-Factor and structural rating charts required for AAMA and NFRC labeling requirements.**
 - c. Installation Instructions - AAMA 2400.

- B. Closeout Submittals: Reference Section 01 78 00 – Closeout Submittals; submit following items:
 - 1. Temporary window labels marked to identify windows that labels were applied to.
 - 2. Maintenance instructions.
 - 3. Special Warranties.

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1.03 QUALITY ASSURANCE

- A. Overall Standards: Comply with ANSI/AAMA/NWDA 101/I.S.2, except as otherwise noted herein.
- B. Qualifications:
 - 1. Manufacturer Qualifications:
 - a. Minimum five years experience in producing vinyl windows of the type(s) specified.
 - b. Member AAMA, NFRC, SIGMA.

INSERT LOCAL REGULATORY REQUIREMENTS BELOW.

- C. Regulatory Requirements:
- D. **Certifications for insulated glass windows:**
 - 1. AAMA: Windows shall be Gold Label certified with label attached to frame per AAMA requirements.
 - 2. NFRC: Windows shall be NFRC certified with temporary U-factor label applied to glass and an NFRC tab added to permanent AAMA frame label.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Reference Section 01 66 00 – Product Storage and Handling Requirements.
- B. Follow manufacturer's instructions on label applied to windows.

1.05 WARRANTY

SELECT "RESIDENTIAL" WARRANTY BELOW FOR OWNER OCCUPIED SINGLE FAMILY RESIDENTIAL AND OWNER OCCUPIED CONDOMINIUM PROJECTS. SELECT "COMMERCIAL" WARRANTY FOR NON-OWNER OCCUPIED CONDOMINIUMS, COMMERCIAL, AND MULTI-FAMILY PROJECTS.

- A. Residential Special Warranty:
 - 1. Full Lifetime warranty to original owner.
 - 2. Transferability:
 - a. Permit unlimited transfer of ownership in first five years.
 - b. Upon first transfer of ownership, warranty period shall become five years from date of original purchase.
 - 3. Warranty windows against defects in materials and workmanship including costs for parts and labor.

OR

- A. Commercial Special Warranty:
 - 1. 10 year warranty.
 - 2. Warranty windows against defects in materials and workmanship including costs for parts and labor.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. Milgard Manufacturing, Inc.
 - 1010 54th Avenue East
 - Tacoma, WA 98424
- Tel: 1.800.MILGARD (645-4273)
(253) 922-2030
- Fax: (253) 926-0848
- Website: milgard.com

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INSERT NAME, ADDRESS AND PHONE NUMBERS OF MANUFACTURER'S REPRESENTATIVE BELOW.

1. Manufacturer's Representative:
- | | |
|--|---------|
| | Tel: |
| | Fax: |
| | E-mail: |

- B. Window Series: Milgard Style Line™.
- C. Substitutions: Reference Section 01 25 13 – Product Substitution Procedures.

2.02 MATERIALS

- A. Vinyl: Integral color PVC compound containing impact-resistant solid plasticizer, titanium dioxide UV inhibitor, and surface and color stabilizers.
1. Comply with ASTM D 4216 and ANSI/AAMA /NWWDA 101/I.S.2.

VERIFY THAT WINDOW FLASHING MATERIAL AND INSTALLATION SEALANT IS SPECIFIED IN APPROPRIATE SECTIONS.

2.03 GENERAL PERFORMANCE REQUIREMENTS

- A. Thermal Performance: Comply with NFRC 100.
- B. Air Leakage, Water Resistance, Structural Test: Comply with ANSI/AAMA /NWWDA 101/I.S.2.
- C. Forced-Entry Resistance: Comply with CAWM 301-90.

2.04 WINDOW TYPES

SELECT FOLLOWING WINDOW TYPES AND RELATED NAIL FIN/MOUNTING STYLE BASED ON PROJECT REQUIREMENTS.
DELETE WINDOW TYPES NOT USED.

- A. Horizontal Slider - [6110 Series, 1-3/8 inch (35 mm) nail fin setback] [6130 Series, 1 inch (25 mm) nail fin setback] [6130] Series, J-Channel] [6170 Series, Z-Bar]:
1. Frame: Minimum 2-7/8 inch (73 mm) deep, multi-chambered vinyl profile.
 2. Sash: Minimum 1-3/16 inch (30 mm) deep, multi-chambered vinyl profile.
 3. Structural Class:
 - a. 6°5' and smaller: HS-LC25.
 - b. Larger than 6°5': HS-R20.
 4. Hardware:
 - a. Nylon rollers, extruded vinyl snap-on monorail roller track.
 - b. Positive action locking mechanism.
 5. Weatherstripping : Fin seal polypropylene pile.
- B. Single-Hung - [6210 Series, 1-3/8 inch (35 mm) nail fin setback] [6230 Series, 1 inch (25 mm) nail fin setback] [6230] Series, J-Channel] [6270 Series, Z-Bar]:
1. Frame: Minimum 2-7/8 inch (73 mm) deep, multi-chambered vinyl profile.
 2. Sash: Minimum 1-3/16 inch (30 mm) deep, multi-chambered vinyl profile.
 3. Structural Class: H-LC30.

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4. Hardware:
 - a. Concealed block and tackle balancer.
 - b. Positive action locking mechanism.
5. Weatherstripping: Fin seal polypropylene pile.

THE FOLLOWING TWO SINGLE-HUNG TILT WINDOWS ARE MANUFACTURED FOR, AND DISTRIBUTED TO, MARKETS EAST OF THE MISSISSIPPI RIVER.

- C. Single-Hung Tilt - [6217 Series, 1-3/8 inch (35 mm) nail fin setback]:
 1. Frame: Minimum 2-7/8 inch (73 mm) deep, multi-chambered vinyl profile.
 - a. **Frame Accessory: [J-Channel trim] [Z-Bar replacement trim].**
 2. Sash: Minimum 1-3/16 inch (30 mm) deep, multi-chambered vinyl profile. Tilt-in lower sash.
 3. Structural Class:
 - a. 4⁶ and smaller: H-LC35.
 - b. Larger than 4⁶: H-LC30.
 4. Design Pressure Rating: DP-40.
 5. Hardware:
 - a. Concealed block and tackle balancer.
 - b. Positive action locking mechanism.
 6. Weatherstripping: Fin seal polypropylene pile.
- D. Single-Hung Tilt - [6218 High Performance Series, 1-3/8 inch (35 mm) nail fin setback]:
 1. Frame: Minimum 2-7/8 inch (73 mm) deep, multi-chambered vinyl profile.
 - a. **Frame Accessory: [J-Channel trim] [Z-Bar replacement trim].**
 2. Sash: Minimum 1-3/16 inch (30 mm) deep, multi-chambered vinyl profile. Tilt-in lower sash.
 3. Structural Class:
 - a. 4⁶ and smaller: H-LC35.
 - b. Larger than 4⁶: H-LC30.
 4. Design Pressure Rating: DP-50.
 5. Hardware:
 - a. Concealed block and tackle balancer.
 - b. Positive action locking mechanism.
 6. Weatherstripping: Fin seal polypropylene pile.
- E. Picture - [6340 Series, 1-3/8 inch (35 mm) nail fin setback] [6330 Series, 1 inch (25 mm) nail fin setback] [6330] Series, J-Channel] [6370 Series, Z-Bar]:
 1. Frame: Minimum 2-7/8 inch (73 mm) deep, multi-chambered vinyl profile.
 2. Structural Class: F-C40.
- F. Picture with Slider Frame - [6310 Series, 1-3/8 inch (35 mm) nail fin setback] [6331 Series, 1 inch (25 mm) nail fin setback] [6331] Series, J-Channel]:
 1. Frame: Minimum 2-7/8 inch (73 mm) deep, multi-chambered vinyl profile.
 2. Structural Class: F-C40.
- G. Radius - [6340 Series, 1-3/8 inch (35 mm) nail fin setback] [6330 Series, 1 inch (25 mm) nail fin setback] [6330] Series, J-Channel]:
 1. Frame: Minimum 2-7/8 inch (73 mm) deep, multi-chambered vinyl profile.
 2. Structural Class: F-C40.
- H. Radius with Slider Frame - [6310 Series, 1-3/8 inch (35 mm) nail fin setback] [6331 Series, 1 inch (25 mm) nail fin setback] [6331] Series, J-Channel]:

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1. Frame: Minimum 2-7/8inch (73 mm) deep, multi-chambered vinyl profile.
 2. Structural Class: F-C40.
- I. Garden Window - 5920 Series, flush mount nail fin:
1. Frame: Multi-chambered vinyl profile.
 2. Structural Class: GH-R30.
 3. Fixed face and top with single-hung sides; muller together to form single window unit.
 4. Projection: 17-3/16 inches (437 mm).

2.05 GLAZING

- A. Insulated Glass Units: ASTM E 774, Class A, 3/4 inch (19 mm) thick overall:
1. Glazing Type: [Clear/Clear] [Clear/SunCoat™ Low-E] [Clear/SunCoat™ Low-E, argon gas filled].

WARM EDGE SPACERS ARE NOT AVAILABLE ON SOME UNITS INCLUDING CERTAIN OVERSIZE UNITS, RADIUS AND GABLED UNITS.

2. Spacer Bar: [Warm edge steel spacer] [Aluminum spacer].

MOST COMMON TYPES OF INSULATED UNITS ARE INCLUDED ABOVE, BUT SEVERAL OTHER TYPES INCLUDING TINTED, REFLECTIVE, TEMPERED, OBSCURE, WIRE, AND LAMINATED ARE AVAILABLE FOR SPECIAL APPLICATIONS. SELECT DESIRED TYPES FROM MILGARD WEBSITE <http://www.milgard.com/architect.html> AND SPECIFY IN LIEU OF, OR IN ADDITION, TO THE ABOVE WITH ALL NECESSARY CRITERIA SUCH AS TINT COLORS AND OBSCURE PATTERNS. IF MORE THAN ONE TYPE OF GLAZING IS REQUIRED FOR THE PROJECT, BE CERTAIN THAT TYPE FOR EACH WINDOW IS CLEARLY NOTED ON DRAWINGS OR IN WINDOW SCHEDULE.

OR

- B. Single Pane Glass:
1. Glazing Type: [Clear] [Solar Bronze] [Solar Gray].

MOST COMMON TYPES OF SINGLE PANE GLASS ARE INCLUDED ABOVE, BUT SEVERAL OTHER TYPES INCLUDING, REFLECTIVE, TEMPERED, OBSCURE, WIRE, AND LAMINATED ARE AVAILABLE FOR SPECIAL APPLICATIONS. SELECT DESIRED TYPES FROM MILGARD WEBSITE <http://www.milgard.com/architect.html> AND SPECIFY IN LIEU OF, OR IN ADDITION, TO THE ABOVE WITH ALL NECESSARY CRITERIA SUCH AS OBSCURE PATTERNS. IF MORE THAN ONE TYPE OF GLAZING IS REQUIRED FOR THE PROJECT, BE CERTAIN THAT TYPE FOR EACH WINDOW IS CLEARLY NOTED ON DRAWINGS OR IN WINDOW SCHEDULE.

2.06 DIVIDED LITE GRIDS:

VERIFY THAT DESIRED GRID PATTERNS, IF ANY, ARE SHOWN ON THE DRAWINGS. CERTAIN GRID PATTERNS MAY NOT BE AVAILABLE WITH ONE OR THE OTHER BAR TYPES IN THE FOLLOWING PARAGRAPH - CONSULT MILGARD FOR UNUSUAL DESIGN APPLICATIONS. GRIDS ARE NOT AVAILABLE FOR SINGLE PANE GLASS WINDOWS.

- A. [5/8 inch (16 mm) wide flat] [1-1/16 inch (27 mm) wide sculptured] metal bars color matched to frame and sash.
- B. grids shall be contained within the airspace of insulated glass units.

2.07 INSECT SCREENS:

- A. Provide tight-fitting screen for operating sash with hardware to allow easy removal.
1. Screen Cloth: Charcoal colored fiberglass mesh.
 2. Frame: Cambered formed aluminum with rigid plastic corner keys.

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2.08 FABRICATION

- A. Fabricate frames and sash with mitered and fusion welded corners and joints. Trim and finish corners and welds to match adjacent surfaces.
- B. Provide concealed metal reinforcement in sash frame for attaching lock mechanism
- C. Factory exterior glaze with snap-on PVC glazing stops matching interior sash and frame finish, except where field glazing is required due to large window unit dimensions (over 40 sf (3.72 m²)). Units shall be reglazeable without dismantling sash framing.

2.09 FINISH

- A. Frame and Sash Color: [White] [Tan].
- B. Color match screen frame to frame and sash color.**

2.10 SOURCE QUALITY CONTROL

- A. Inspect windows in accordance with manufacturer's Quality Control Program as required by AAMA Gold Label certification.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine openings in which windows will be installed.
 - 1. Verify that framing complies with AAMA 2400.**
 - 2. Verify that fasteners in framed walls are fully driven and will not interfere with window installation.**
- B. Coordinate with responsible entity to correct unsatisfactory conditions.
- C. Commencement of work by installer is acceptance of substrate conditions.

3.02 INSTALLATION

INSTALLATION INSTRUCTIONS (AAMA 2400) ARE ADEQUATE FOR NORMAL INSTALLATION CONDITIONS IN FRAMED CONSTRUCTION. MASONRY WALLS AND UNUSUAL CONDITIONS MAY REQUIRE ADDITIONAL INFORMATION IN THIS ARTICLE.

- A. Install windows in framed walls in accordance with AAMA 2400.
 - 1. Provide continuous shim support along full length of sill.
- B. Do not remove temporary labels.
- C. Install insect screens on operable sash.**

3.03 CLEANING

- A. Reference Section 01 74 00 – Cleaning and Waste Management.
- B. Remove temporary labels and retain for Closeout Submittals
- C. Clean soiled surfaces and glass using a mild detergent and warm water solution with soft, clean cloths

END OF SECTION

This specification was prepared specifically for Milgard Manufacturing, Inc. by ASC Specification Consultants. Comments or suggestions for improvement should be addressed to Milgard at the address in Article 2.01 A.

Issue Date: November 17, 2008