

Milgard Quiet Line™ Series Vinyl Windows 3-Part Specification

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 56 73

(MasterFormat 1995 Edition: 08560)

SOUND CONTROL VINYL WINDOWS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Tubular extruded poly vinyl chloride (PVC) STC rated windows of the following type(s):
 - 1. **Horizontal sliding windows.**
 - 2. **Double-hung windows.**
 - 3. **Casement windows.**
 - 4. **Awning windows**
 - 5. **Picture windows.**
- B. Related Sections:

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

- 1. ____ - _____.
- 2. ____ - _____.

IF VINYL SLIDING DOORS ARE USED IN CONJUNCTION WITH THIS SECTION, MANUFACTURER RECOMMENDS INSULATED GLAZING UNIT CONSIST OF TWO SHEETS OF LAMINATED GLASS.

- 3. **08 32 16 – 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.

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- 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.

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.



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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 |
|---|---|

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

1. Manufacturer's Representative:

Tel: _____

Fax: _____

E-mail: _____

- B. Window Series: Milgard Quiet 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 - 7120 Series:
1. Frame: Minimum 5-9/16 inch (141 mm) deep, multi-chambered vinyl profile.
 2. Sash: Minimum 1-1/16 inch (27 mm) deep, multi-chambered vinyl profile.
 3. Sightlines: Equal for operating and fixed sash.

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STC VARIES SLIGHTLY DEPENDING ON TYPE OF GLAZING SELECTED. ENTER THE STC BELOW FROM MILGARD'S LITERATURE FOLLOWING SELECTION OF GLAZING TYPE.

4. STC: _____.
 5. Structural Class:
 - a. HS-C30 for double bypass
 - b. HS-R20 for double bypass with fixed center sash.
 6. Hardware:
 - a. Nylon rollers, extruded vinyl snap-on monorail roller track.
 - b. Positive action locking mechanism.
 7. Weatherstripping: Fin seal polypropylene pile.
- B. Double-Hung - 7220 Series:
1. Frame: Minimum 5-9/16 inch (141 mm) deep, multi-chambered vinyl profile.
 2. Sash: Minimum 1-1/16 inch (27 mm) deep, multi-chambered vinyl profile.

STC VARIES SLIGHTLY DEPENDING ON TYPE OF GLAZING SELECTED. ENTER THE STC BELOW FROM MILGARD'S LITERATURE FOLLOWING SELECTION OF GLAZING TYPE.

3. STC: _____.
 4. Structural Class: H-C30.
 5. Hardware:
 - a. Concealed block and tackle balancer.
 - b. Sash lift.
 - c. Positive action locking mechanism.
 6. Weatherstripping: Fin seal polypropylene pile.
- C. Casement - 7520 Series:
1. Frame: Minimum 5-1/8 inch (130 mm) deep, multi-chambered vinyl profile.
 2. Sash: Minimum 4-5/8 inch (118 mm) deep, multi-chambered vinyl profile.

STC VARIES SLIGHTLY DEPENDING ON TYPE OF GLAZING SELECTED. ENTER THE STC BELOW FROM MILGARD'S LITERATURE FOLLOWING SELECTION OF GLAZING TYPE.

3. STC: _____.
 4. Structural Class: C-C60.
 5. Hardware:
 - a. Dual steel arm rotary operator with fold-down handle.
 - b. Single lever, multi-point, locking mechanism.
 - c. Two bar adjustable hinge.
 6. Weatherstripping: Soft bulb vinyl.
- D. Awning - 7420 Series:
1. Frame: Minimum 5-1/8 inch (130 mm) deep, multi-chambered vinyl profile.
 2. Sash: Minimum 4-5/8 inch (118 mm) deep, multi-chambered vinyl profile.

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STC VARIES SLIGHTLY DEPENDING ON TYPE OF GLAZING SELECTED. ENTER THE STC BELOW FROM MILGARD'S LITERATURE FOLLOWING SELECTION OF GLAZING TYPE.

3. STC: _____.
 4. Structural Class: AP-C55.
 5. Hardware:
 - a. Single steel arm rotary operator with fold-down handle.
 - b. Dual lever locking mechanism.
 - c. Two bar adjustable hinge.
 6. Weatherstripping: Soft bulb vinyl.
- E. Picture - 7320 Series:
1. Frame: Minimum 4-7/8 inch (124 mm) deep, multi-chambered vinyl profile.

STC VARIES SLIGHTLY DEPENDING ON TYPE OF GLAZING SELECTED. ENTER THE STC BELOW FROM MILGARD'S LITERATURE FOLLOWING SELECTION OF GLAZING TYPE.

2. STC: _____.
3. Structural Class: F-HC60.

2.05 ACCESSORIES

- A. Snap-on exterior Z-Bar flush fin.**
- B. Nail fin.**

2.06 GLAZING

- A. Primary Glazing Unit: Insulated Glass: 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, HEAT STRENGTHENED, 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.

- B. Secondary Glazing Unit:
1. Glazing Type: [Clear single glazed] [Clear laminated, 7/32 inch (5.6 mm) thick overall with 0.030 inch (0.762 mm) interlayer].

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2.07 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.

- 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.

2.08 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.

2.09 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.

2.10 FINISH

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

2.11 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.

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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.

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