

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.

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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.

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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; mulled 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

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SECTION 08 32 17

(MasterFormat 1995 Edition: 08260)

VINYL SLIDING GLASS DOORS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Tubular extruded poly vinyl chloride (PVC) framed sliding glass doors:
- B. Related Sections:

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

- 1. _____ - _____.
- 2. _____ - _____.
- 3. **08 53 14 - Vinyl Windows.**

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 door schedule, door elevations, sections and details, and multiple unit 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. Manufacturer's Installation Instructions.
- B. Closeout Submittals: Reference Section 01 78 00 – Closeout Submittals; submit following items:
 - 1. Temporary labels marked to identify doors 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 doors of the type(s) specified.
 - b. Member AAMA, NFRC, SIGMA.



Milgard Style Line™ Series Vinyl Patio Door 3-Part Specification



INSERT LOCAL REGULATORY REQUIREMENTS BELOW.

C. Regulatory Requirements:

D. Certifications for insulated glass doors:

1. AAMA: Doors shall be Gold Label certified with label attached to frame per AAMA requirements.
2. NFRC: Doors 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 doors.

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 doors against defects in materials and workmanship including costs for parts and labor.

OR

A. Commercial Special Warranty:

1. 10 year warranty.
2. Warranty doors against defects in materials and workmanship including costs for parts and labor.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- | | | |
|--------------------------------|----------|--|
| A. Milgard Manufacturing, Inc. | Tel: | 1.800.MILGARD (645-4273) |
| 1010 54th Avenue East | | (253) 922-2030 |
| Tacoma, WA 98424 | 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:	_____

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- B. Door 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 DOOR 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 SLIDING DOOR

VERIFY THAT DRAWINGS SHOW PANEL ARRANGEMENT AND OPERATING PANELS FOR EACH DOOR.

- A. Sliding Door - [6610 Series, 1-3/8 inch (35 mm) nail fin setback] [6630 Series, 1 inch (25 mm) nail fin setback] [6630] Series, J-Channel] [6670 Series, Z-Bar]:
 - 1. Frame: Minimum 4-1/8 inch (105 mm) deep, multi-chambered vinyl profile.
 - 2. Panel Frame: Minimum 2-1/4 by 1-3/16 inch (57 by 30 mm), multi-chambered vinyl profile.
 - 3. Sill: 4-1/8 by 1-9/16 inch high (105 by 40 mm high) multi-chambered vinyl profile.
 - 4. Structural Class: SGD-LC25.
 - 5. Hardware:
 - a. Handle and Lock: [Inside and outside pull with lever operated 1 point jamb lock].
 - b. **Keyed exterior cylinder lock, Schlage compatible.**
 - c. Rollers: two sets of dual stainless steel, 1-1/2 inch (38 mm) diameter, rollers on raise monorail stainless steel track.
 - 6. Weatherstripping: Fin seal polypropylene pile.

2.05 GLAZING

- A. Insulated Glass Units: ASTM E 774, Class A, 1 inch (25 mm) thick overall:
 - 1. Glazing Type: Tempered [Clear/Clear] [Clear/SunCoat™ Low-E] [Clear/SunCoat™ Low-E, argon gas filled].
 - 2. Spacer Bar: Warm edge steel spacer.

MOST COMMON TYPES OF INSULATED UNITS ARE INCLUDED ABOVE, BUT SEVERAL OTHER TYPES INCLUDING TINTED, REFLECTIVE, 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 DOOR IS CLEARLY NOTED ON DRAWINGS OR IN DOOR SCHEDULE.

OR

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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, 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 DOOR IS CLEARLY NOTED ON DRAWINGS OR IN DOOR 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 DOORS.

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

2.07 INSECT SCREENS:

- A. Sliding Screen:
 1. Frame: Roll-formed aluminum, 2 by 13/16 inches (51 by 21 mm).
 2. Hardware:
 - a. Lock: Lever action type.
 - b. Rollers: 2 adjustable nylon rollers at top, and 2 adjustable nylon rollers at bottom.
 3. Screen Cloth: Charcoal colored fiberglass mesh.

2.08 FABRICATION

- A. Fabricate frames and panels 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 inside glaze with snap-on PVC glazing stops matching frame finish. Units shall be reglazeable without dismantling panel framing.

2.09 FINISH

- A. Frame and Panel Color: [White] [Tan].
- B. **Color match screen [frame] [housing] to frame and panel color.**

2.10 SOURCE QUALITY CONTROL

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

Milgard Style Line™ Series Vinyl Patio Door 3-Part Specification

6000
SERIES
STYLE LINE VINYL

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine openings in which doors will be installed.
 - 1. **Verify that fasteners in framed walls are fully driven and will not interfere with door installation.**
 - 2. **Verify that sill is flat and level.**
- 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 ARE ADEQUATE FOR NORMAL INSTALLATION CONDITIONS IN FRAMED CONSTRUCTION. MASONRY WALLS AND UNUSUAL CONDITIONS MAY REQUIRE ADDITIONAL INFORMATION IN THIS ARTICLE.

- A. Install doors in framed walls in accordance with manufacturer's installation instructions.
 - 1. Flash head and jambs in accordance with AAMA 2400.
- B. Do not remove temporary labels.
- C. **Install insect screens on operable panels.**

3.03 ADJUSTING

- A. Adjust operating panels and hardware for smooth operation and tight fit with weatherstripping.

3.04 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.

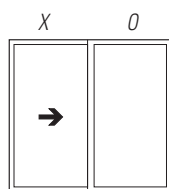
END OF SECTION

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.

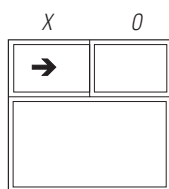
Issue Date: November 17, 2008

6110 Horizontal Sliding Windows

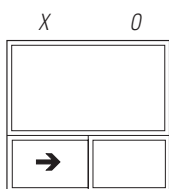
6000
SERIES
STYLE LINE VINYL



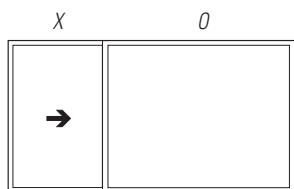
Half-vent



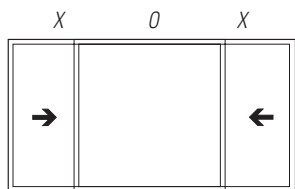
Half-vent above



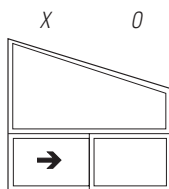
Half-vent below



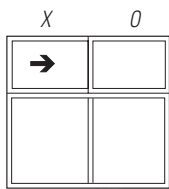
Single-vent



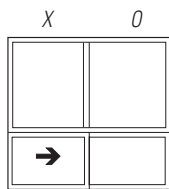
Double-vent



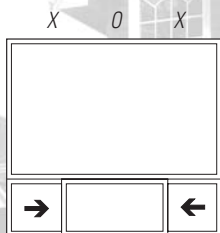
Half-vent below
gable above



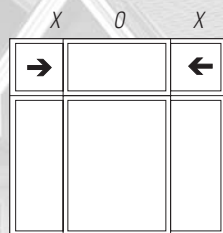
Half-vent above
2-lites below



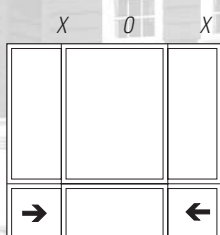
Half-vent below
2-lites above



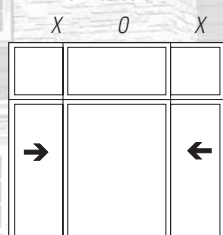
Double-vent below



Double-vent above
3-lites below



Double-vent below
3 lites above



Double-vent below
3 lites above

- **HALF-VENT**
 - Min 2°1° Max 6°5°
- **HALF-VENT ABOVE**
 - Min 2°2° Max 6°6°
- **HALF-VENT BELOW**
 - Min 2°2° Max 6°6°
- **DOUBLE-VENT**
 - Min 4°1° Max 10°6°
- **DOUBLE-VENT BELOW**
 - Min 4°2° Max 8°6°
- **DOUBLE-VENT ABOVE**
 - Min 4°2° Max 8°6°

Minimum egress for half-vent is 4°3°

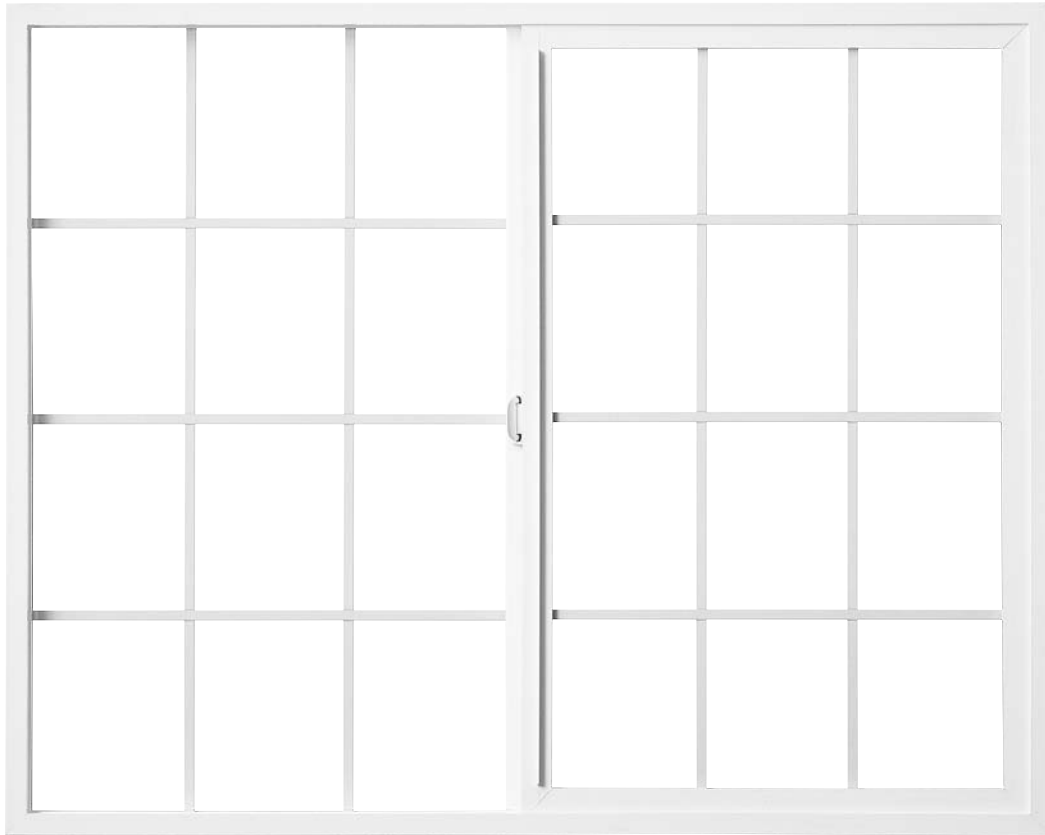
Minimum egress for double-vent is 6°3° with a 24" vent.

NOTE: For engineering approval contact your Milgard representative for any configuration over 40 square feet. Each Milgard Manufacturing plant reserves the right to alter or change sizes and configurations according to location capabilities. Ask your Milgard rep about specialty applications.

Windows over 40 square feet shipped open for field glazing. Varies by location.

6110 Horizontal Sliding Windows

6000
SERIES
STYLE LINE VINYL



The 6110 series vinyl (PVC) Horizontal Sliding window blends the energy efficiency and low maintenance of vinyl with the clean lines and low profile appearance of an aluminum window. The result is a more contemporary look with maximum glazing area. Available in White or Tan homogenous window frames, the 6110's durable vinyl exterior will never need painting. The windows will maintain their color and shape and can be constructed to your exact size specifications, subject to review.

Like all Milgard windows, doors and skylights, the 6110 Series carries a Full Lifetime Warranty to the original single family homeowner covering both materials and labor.

Commercial and apartment projects are covered by a 10-year warranty from date of manufacture, covering all materials and labor, including the glazing unit.

CONFIGURATIONS

The 6110 series is designed as an inside slider (the sliding panel, or "vent," slides inside the stationary panel). Horizontal sliding windows can be used alone or in tandem with radius, gable or picture windows for vent below and vent above configurations.

COMPONENTS

FRAME

Frame components are made from high performance polyvinyl chloride, available in White or Tan window frames. The 6110 series is designed to offer a low profile appearance, ideal for contemporary homes or whenever maximum glazing area is desired. Mitered corners are precision welded resulting in an air and water tight seal. Standard frame depth is 2-7/8", ideal for both new construction and for use as a replacement window.

6110 Horizontal Sliding Windows

6000
SERIES
STYLE LINE VINYL

NAIL-ON FIN

A 1-1/16" pre-punched nail flange extends around the perimeter frame, securing the window in rough openings and acting as a part of the flashing system. The nailing fin may be removed as needed for particular block frame applications. Fin setbacks are available in 1-3/8" from outside of frame; also in 1" (6130 series) for our SW locations using 3 coat stucco applications (not available at all locations).

WEEP SYSTEM

Hollow sill construction and offset weep holes that release any accumulated moisture from track and help prevent blow back, or water seeping to the interior caused by a combination of wind and rain.

GLAZING MATERIAL

AAMA approved glazing tape adheres glass to the fixed panel frame which seals and cushions the glass. Rigid vinyl setting blocks are used to support the unit above the sill, preventing glass slippage. Extruded vinyl glazing (snap-in) bead is applied around the exterior edge.

Glass insulating dual glazed panes, 3/4" in overall thickness, are butyl sealed for energy efficiency. Specialty glass options are available upon request.

VENT PANEL

The vent panel has an "L" shaped lip that fully interlocks with the vertical meeting rail, adding security and preventing air and water penetration. Its roller assembly rides on a monorail track for easy operation and durability. This raised track in the frame sill helps keep the vent panel free from interference by foreign particles that may collect in the sill.

WEATHERSTRIPPING

Silicone-treated water-repellent polypropylene fin seal weatherstripping provides a durable, weather tight seal. This weatherstripping is installed in an integral, continuous keyway around three sides of the vent panel and interlock.

ROLLER ASSEMBLY

Self-lubricating, wear resistant, dual nylon rollers provide flexible, free-wheeling, smooth and silent operation. The adjustable rollers are engineered for reduction of friction and elimination of torque on the vent frame.

LOCKING ASSEMBLY

A positive action lock mechanism provides security and a tighter seal. The lock engages when the window is closed.

SCREEN

Screen frames are cambered aluminum, reinforced with rigid plastic corner clips. Screens come standard with matching frame color.

The fiberglass charcoal screen mesh is strong, durable and easy to replace. Two plastic pulls located on the screen allow you to install from inside or outside of house.

ENERGY PACKAGES

Milgard offers two energy efficiency upgrade packages that offer increased U-Value performance. 3D™ and 3D MAX™ use the ENERGY STAR® criteria from each climate zone and utilize materials that are tailored to each individual climate to increase energy efficiency. The combination of the frame material, product design and glazing unit make up the 3 components of the energy packages. The Style Line Series receives up to 26% increase in energy efficiency with the 3D MAX package.

Note:

- Packages available in most markets. Please see your local sales representative for details.
- 3D and 3D MAX energy packages are based on insulated glass units with Single Strength (3/32") and Double Strength (1/8") glass. Some glass thicknesses and internal grid combinations may result in lower energy performance.
- 3D and 3D MAX energy packages are not included with the 8125 Double Slider, 5621WS Wide Stile Sliding Door, 8225 Double Hung when selecting grids and are currently not available in breather tube applications.

OPTIONS

GRIDS

Available in 5/8" flat. Color-matched to frame.
1-1/16" sculptured grid available in select markets – check with your Milgard representative.

GLASS

Refer to glass section.

Many more options are available. Please check with your Milgard Representative.

TEST STANDARDS

See Test Reports/Energy Ratings section.

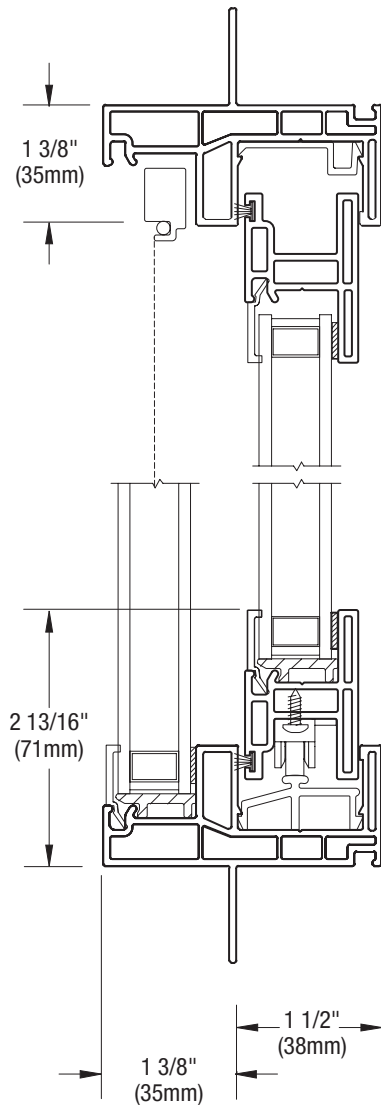
Caution: The use of petroleum based fuels or solvents as release agents in stucco wall installations or glass cleaning will chemically attack materials used in seals and other components, and voids the Milgard Warranty. The use of wax based release agents is recommended.

Expanding foam for insulation purposes should not be used.

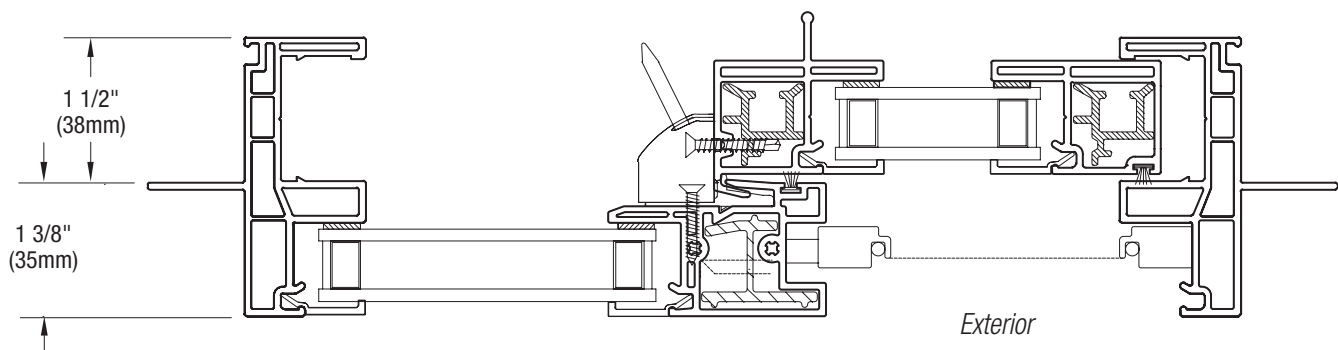
6130 Assembly Drawing

6000
SERIES
STYLE LINE VINYL

Exterior

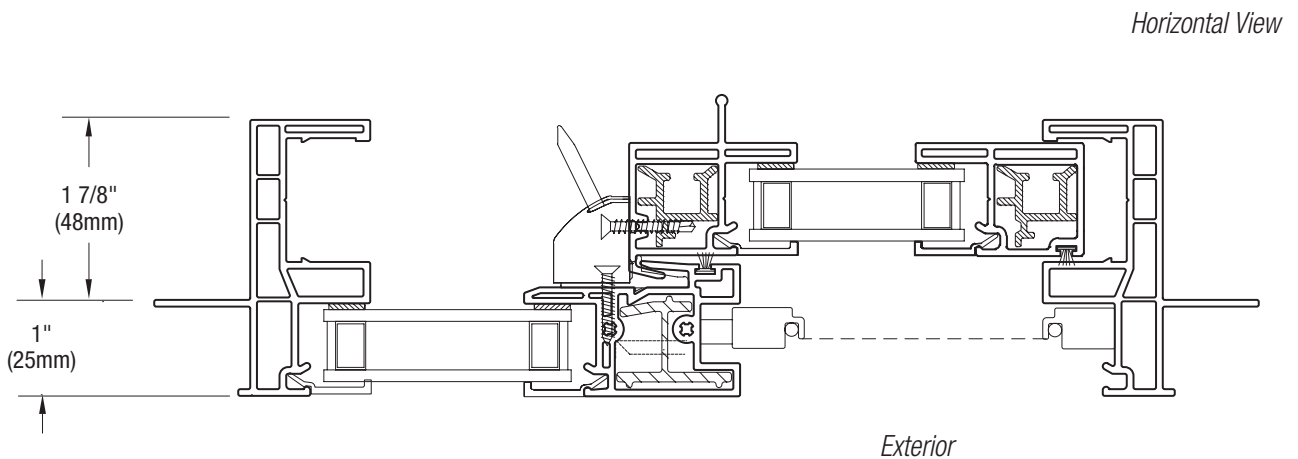
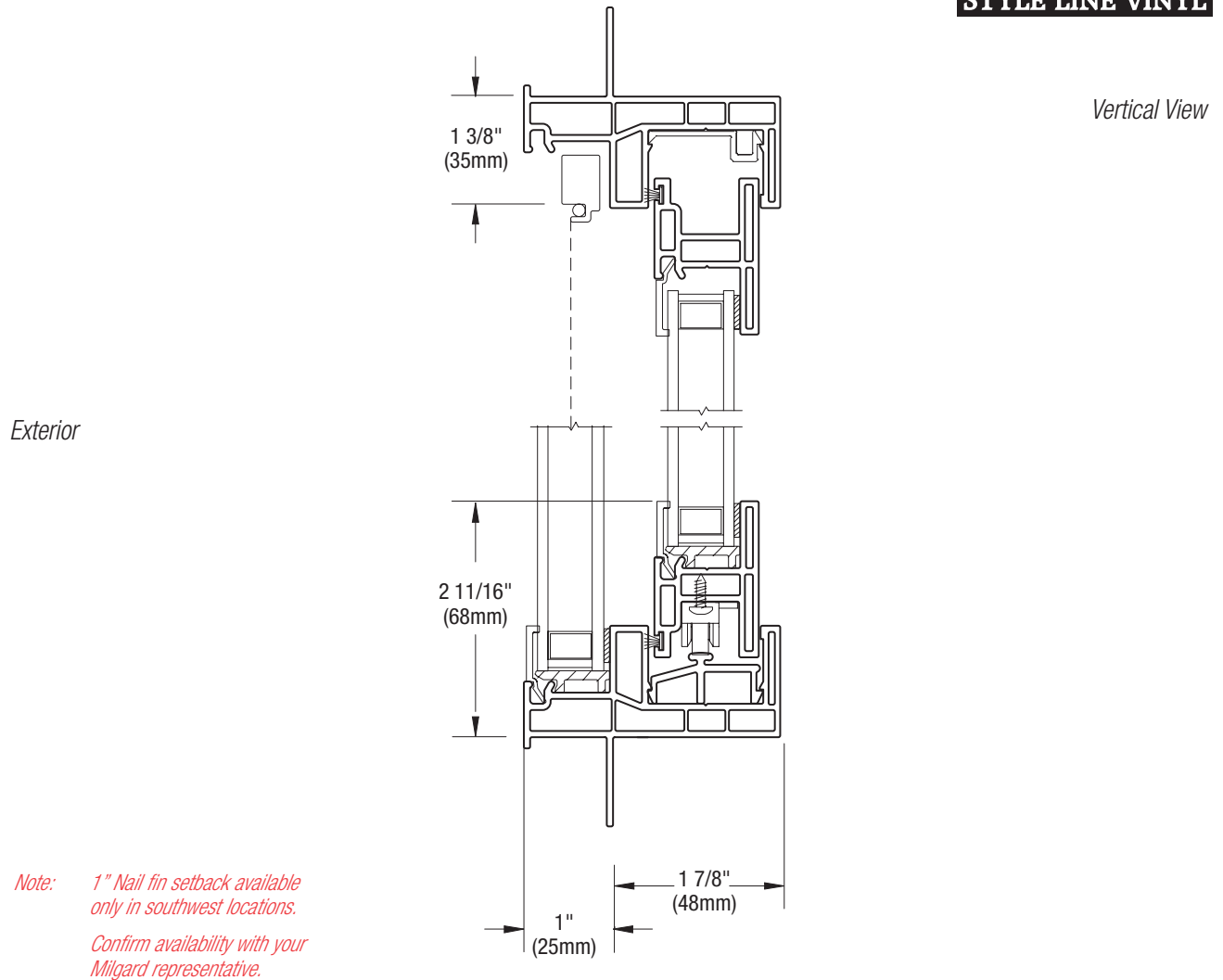


Horizontal View



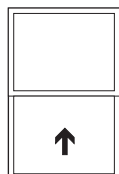
6130 Assembly Drawing (SW)

6000
SERIES
STYLE LINE VINYL

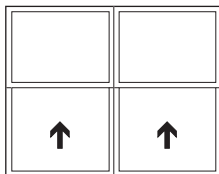


6210 Vertical Sliding Windows

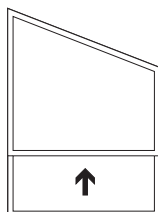
6000
SERIES
STYLE LINE VINYL



Single-Hung



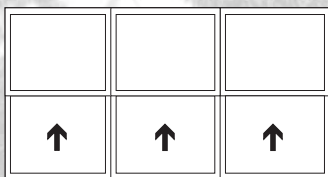
Double Single-Hung



Gable Top Single-Hung



Double Single-Hung/Center Lite



Triple Single-Hung

SINGLE-HUNG

- Min 1'2" Max 4'6"

DOUBLE SINGLE-HUNG

- Min 2'2" Max 7'6"

TRIPLE SINGLE-HUNG

- Min 3'2" Max 9'6"

Minimum egress is 3'5" with a 30" bar set or 2'6" with a 36" bar set.

SH vent set: 12, 15, 18, 21, 24, 27, 30, 33 or 36

NOTE: For engineering approval contact your Milgard representative for any configuration over 40 square feet. Each Milgard Manufacturing plant reserves the right to alter or change sizes and configurations according to location capabilities. Ask your Milgard rep about specialty applications.

Windows over 40 square feet shipped open for field glazing. Varies by location.

6210 Vertical Sliding Windows

6000
SERIES
STYLE LINE VINYL



The 6210 series vinyl (PVC) Vertical Sliding window blends the energy efficiency and low maintenance of vinyl with the clean lines and low profile appearance of an aluminum window. The result is a more contemporary look with maximum glazing area. Available in White or Tan homogenous window frames, the 6210's durable vinyl exterior will never need painting. The windows will maintain their color and shape and can be constructed to your exact size specifications, subject to review.

Like all Milgard windows, doors and skylights, the 6210 Series carries a Full Lifetime Warranty to the original single family homeowner covering both materials and labor.

Commercial and apartment projects are covered by a 10-year warranty from date of manufacture, covering all materials and labor, including the glazing unit.

CONFIGURATIONS

The 6210 series is designed as a single hung. Vertical sliding windows can be used alone or in tandem with radius, gable or picture windows for virtually any combination.

COMPONENTS

FRAME

Frame components are made from high performance polyvinyl chloride, available in White or Tan window frames. The 6210 series is designed to offer a low profile appearance, ideal for contemporary homes or whenever maximum glazing area is desired. Mitered corners are precision welded resulting in an air and water tight seal. Standard frame depth is 2-7/8", ideal for both new construction and for use as a replacement window.

6210 Vertical Sliding Windows

6000
SERIES
STYLE LINE VINYL

NAIL-ON FIN

A 1-1/16" pre-punched nail flange extends around the perimeter frame, securing the window in rough openings and acting as a part of the flashing system. The nailing fin may be removed as needed for particular block frame applications. Fin setbacks are available in 1-3/8" from outside of frame; also in 1" (6230 series) for our SW locations using 3 coat stucco applications (not available at all locations).

WEEP SYSTEM

Hollow sill construction and offset weep holes which release any accumulated moisture from track and help prevent blow back, or water seeping to the interior caused by a combination of wind and rain.

GLAZING MATERIAL

AAMA approved glazing tape adheres glass to the frame which seals and cushions the glass. Rigid vinyl setting blocks are used to support the unit above the sill, preventing glass slippage. Extruded vinyl glazing (snap-in) bead is applied around the interior edge.

Glass Insulating dual glazed panes, 3/4" in overall thickness, are butyl sealed for energy efficiency. Specialty glass options are available upon request.

VENT PANEL

The vent panel has an "L" shaped lip that fully interlocks with the horizontal meeting rail, adding security and preventing air and water penetration. The vent panel operates on concealed block and tackle balancers, allowing the vent to remain open in any position. The balancer is installed in the jamb on each side of the window and is easily removed for replacement.

WEATHERSTRIPPING

Silicone-treated water-repellent polypropylene fin seal weatherstripping provides a durable, weather tight seal. This weatherstripping is installed in an integral, continuous keyway around three sides of the vent panel and the interlock.

LOCKING ASSEMBLY

A positive action lock mechanism provides security and a tighter seal. The lock engages when the window is closed.

SCREEN

Screen frames are cambered aluminum, reinforced with rigid plastic corner clips. Screens come standard with matching frame color. The fiberglass charcoal screen mesh is strong, durable and easy to replace. Two plastic pulls located on the screen allow you to install from inside or outside of house.

ENERGY PACKAGES

Milgard offers two energy efficiency upgrade packages that offer increased U-Value performance. 3D™ and 3D MAX™ use the ENERGY STAR® criteria from each climate zone and utilize materials that are tailored to each individual climate to increase energy efficiency. The combination of the frame material, product design and glazing unit make up the 3 components of the energy packages. The Style Line Series receives up to 26% increase in energy efficiency with the 3D MAX package.

Note:

- Packages available in most markets. Please see your local sales representative for details.
- 3D and 3D MAX energy packages are based on insulated glass units with Single Strength (3/32") and Double Strength (1/8") glass. Some glass thicknesses and internal grid combinations may result in lower energy performance.
- 3D and 3D MAX energy packages are not included with the 8125 Double Slider, 5621WS Wide Stile Sliding Door, 8225 Double Hung when selecting grids and are currently not available in breather tube applications.

OPTIONS

GRIDS

Available in 5/8" flat. Color-matched to frame. 1-1/16" sculptured grid available in select markets – check with your Milgard representative.

GLASS

Refer to glass section.

Many more options are available. Please check with your Milgard Representative.

TEST STANDARDS

See Test Reports/Energy Ratings section.

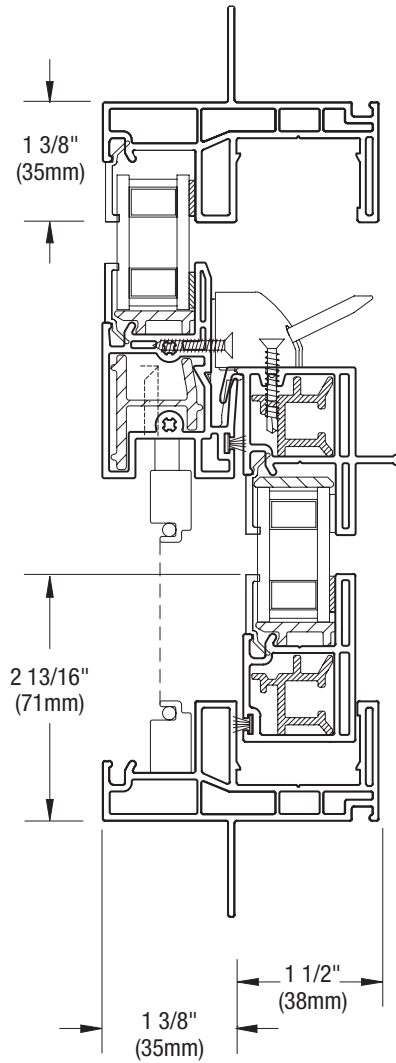
Caution: The use of petroleum based fuels or solvents as release agents in stucco wall installations or glass cleaning will chemically attack materials used in seals and other components, and voids the Milgard Warranty. The use of wax based release agents is recommended.

Expanding foam for insulation purposes should not be used.

6210 Vertical Sliding Windows

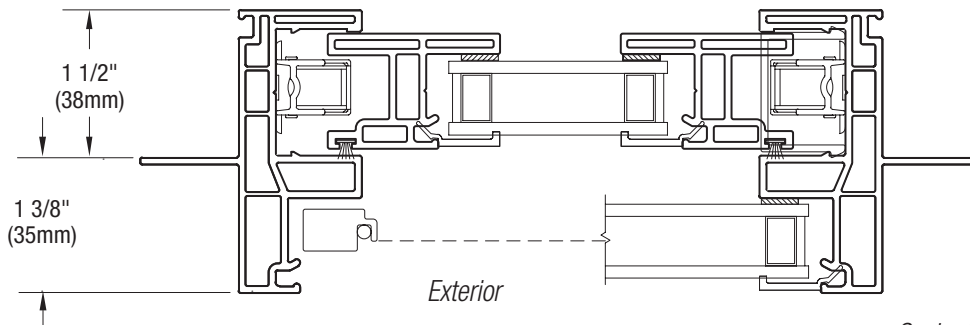
6000
SERIES
STYLE LINE VINYL

Exterior



Vertical View

Horizontal View



Scale: 6" = 1' (1/2 scale)

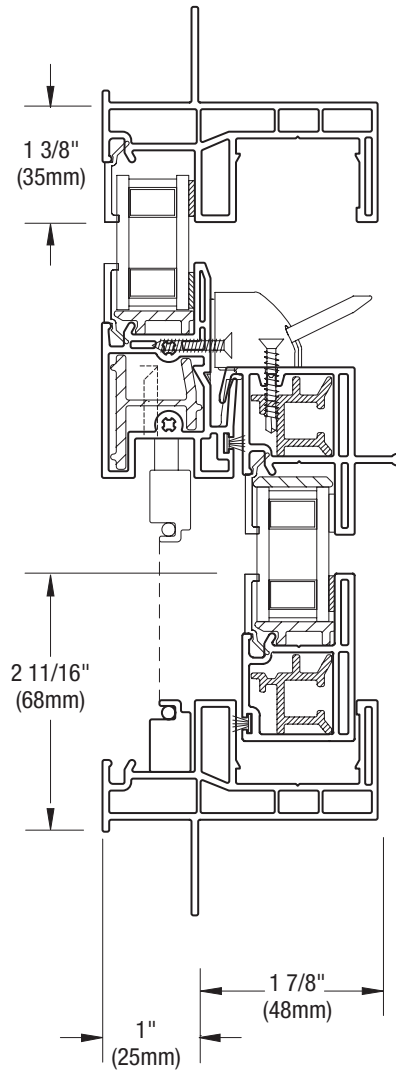
6210 Vertical Sliding Windows

6000
SERIES
STYLE LINE VINYL

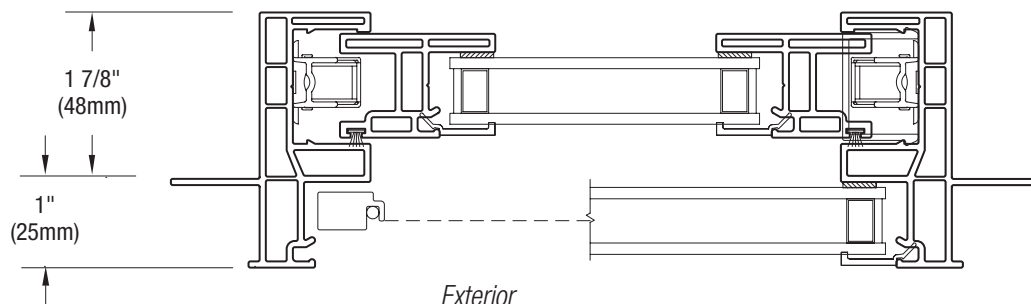
Vertical View

Exterior

Note: 1" Nail fin setback available only in southwest locations. Confirm availability with your Milgard representative.



Horizontal View



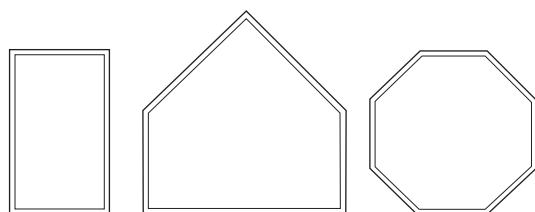
Scale: 6" = 1' (1/2 scale)

Due to continual product research and development, details may be changed at any time. ©2008 Products shown are not available at all locations – confirm availability with your local Milgard representative.

6210-6
NOVEMBER 2008

6340 Picture/6310 Radius Windows

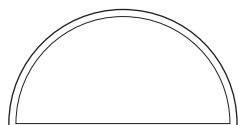
6000
SERIES
STYLE LINE VINYL



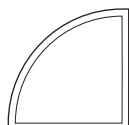
Picture
window

Picture?window
gable

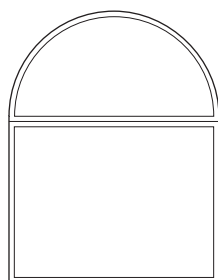
Picture?window
octagon



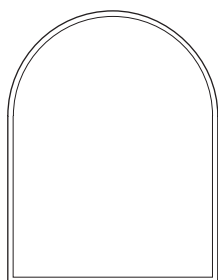
Half-round



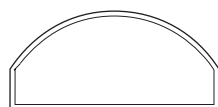
Quarter?Round



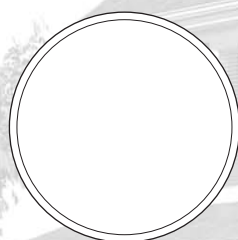
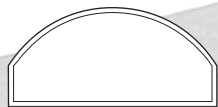
Round?top/picture



Round?top



Arch?top



Full?round

— PICTURE WINDOW

- Min 1'1" Max 8'6"

— OCTAGON

- Min 2'2" Max 6'6"

— HALF ROUNDS

- Min 2'1" Max 8'4"

— QUARTER ROUNDS

- Min 1'1" Max 6'6"

— FULL ROUND

- Min 2'2" Max 6'6"

— ARCH TOPS

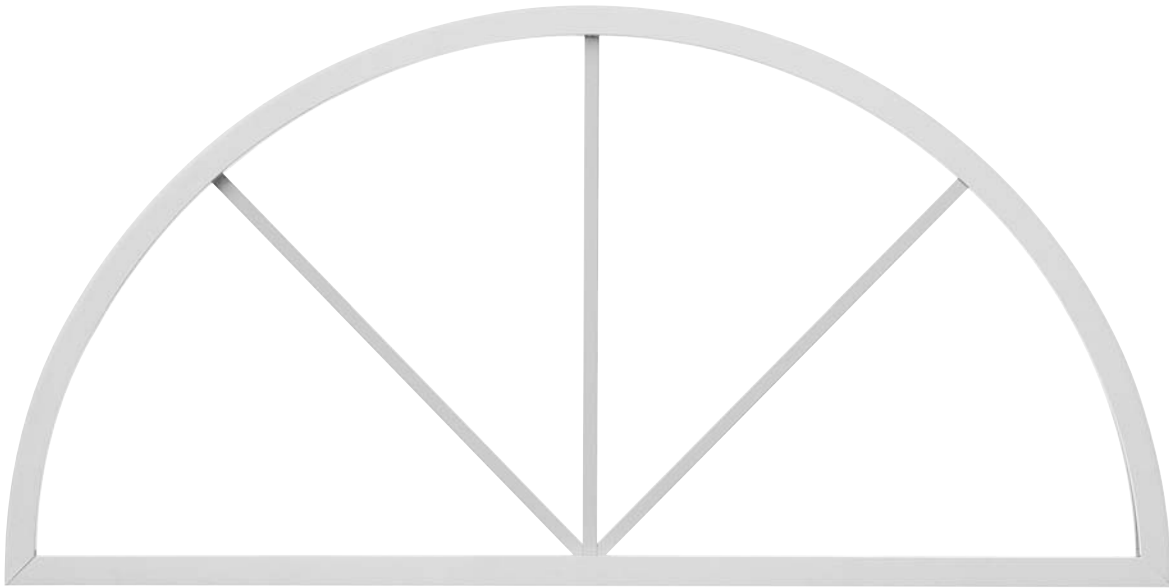
- 48 square feet maximum
- Min 2'2" Max 8'6"
- must specify leg height and center height
- minimum 6" leg height

NOTE: For engineering approval contact your Milgard representative for any configuration over 40 square feet. Each Milgard Manufacturing plant reserves the right to alter or change sizes and configurations according to location capabilities. Ask your Milgard rep about specialty applications.

Windows over 40 square feet shipped open for field glazing. Varies by location.

6340 Picture/6310 Radius Windows

6000
SERIES
STYLE LINE VINYL



The 6340/6310 series vinyl (PVC) Picture/ radius windows blend the energy efficiency and low maintenance of vinyl with the clean lines and low profile appearance of an aluminum window. The result is a more contemporary look with maximum glazing area. Available in White or Tan homogenous window frames, the 6340/6310's durable vinyl exterior will never need painting. The windows will maintain their color and shape and can be constructed to your exact size specifications, subject to review.

Like all Milgard windows, doors and skylights, the 6340/6310 Series carries a Full Lifetime Warranty to the original single family homeowner covering both materials and labor.

Commercial and apartment projects are covered by a 10-year warranty from date of manufacture, covering all materials and labor, including the glazing unit.

CONFIGURATIONS

The 6340/6310 series is designed as a fixed panel. Milgard picture/radius windows are available in custom sizes to match almost any design, either new or retrofit.

6340 Picture/6310 Radius Windows

6000
SERIES
STYLE LINE VINYL

COMPONENTS

FRAME

Frame components are made from high performance polyvinyl chloride, available in White and Tan window frames. The 6340/6310 series is designed to offer a low profile appearance, ideal for contemporary homes or whenever maximum glazing area is desired. Mitered corners are precision welded resulting in an air and water tight seal. Standard frame depth is 2-7/8", ideal for both new construction and for use as a replacement window.

NAIL-ON FIN

A 1-1/16" pre-punched nail flange extends around the perimeter frame, securing the window in rough openings and acting as a part of the flashing system. Fin setbacks are available in 1-3/8" from outside of frame, also in 1" (6330/6331 series) for our SW locations using 3 coat stucco applications (not available at all locations).

WEEP SYSTEM

Hollow sill construction and offset weep holes that release any accumulated moisture.

GLAZING MATERIAL

AAMA approved glazing tape adheres glass to the frame which seals and cushions the glass. Rigid vinyl setting blocks are used to support the unit above the sill, preventing glass slippage. Extruded vinyl glazing (snap-in) bead is applied around the exterior edge.

Glass insulating dual glazed panes, 1" in overall thickness (3/4" for 6310), are butyl sealed for energy efficiency. Specialty glass options are available upon request.

ENERGY PACKAGES

Milgard offers two energy efficiency upgrade packages that offer increased U-Value performance. 3D™ and 3D MAX™ use the ENERGY STAR® criteria from each climate zone and utilize materials that are tailored to each individual climate to increase energy efficiency. The combination of the frame material, product design and glazing unit make up the 3 components of the energy packages. The Style Line Series receives up to 26% increase in energy efficiency with the 3D MAX package.

Note:

- Packages available in most markets. Please see your local sales representative for details.
- 3D and 3D MAX energy packages are based on insulated glass units with Single Strength (3/32") and Double Strength (1/8") glass. Some glass thicknesses and internal grid combinations may result in lower energy performance.
- 3D and 3D MAX energy packages are not included with the 8125 Double Slider, 5621WS Wide Stile Sliding Door, 8225 Double Hung when selecting grids and are currently not available in breather tube applications.

OPTIONS

GRIDS

Available in 5/8" standard. Color-matched to frame.
1-1/16" sculptured grid available in select markets – check with your Milgard representative.

GLASS

Refer to glass section.

Many more options are available. Please check with your Milgard Representative.

TEST STANDARDS

See Test Reports/Energy Ratings section.

Caution: The use of petroleum based fuels or solvents as release agents in stucco wall installations or glass cleaning will chemically attack materials used in seals and other components, and voids the Milgard Warranty. The use of wax based release agents is recommended.

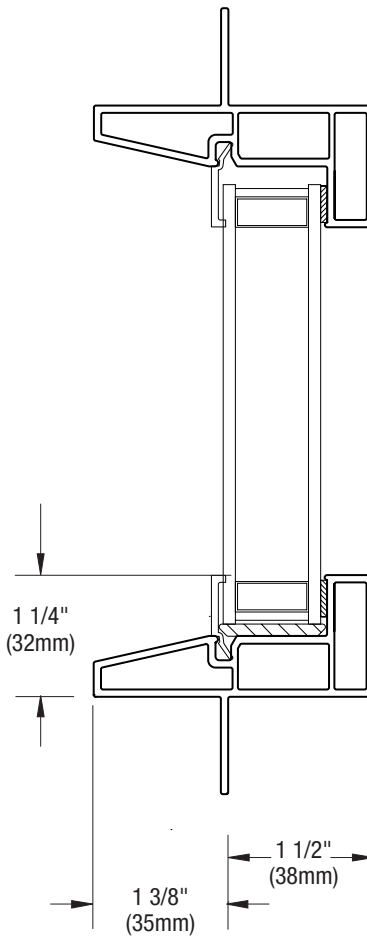
Expanding foam for insulation purposes should not be used.

6340 Assembly Drawing

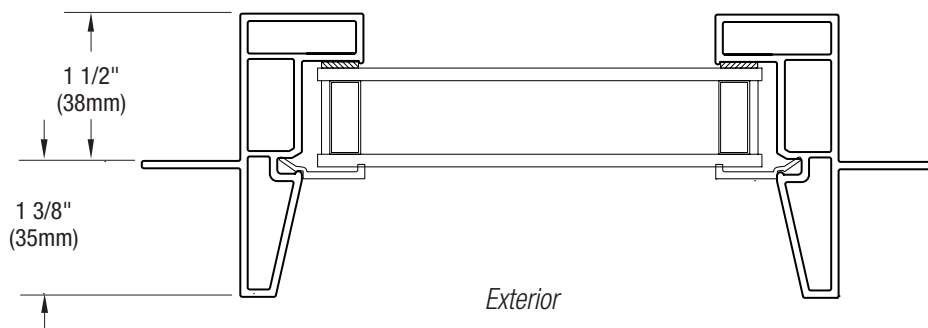
6000
SERIES
STYLE LINE VINYL

Vertical View

Exterior



Horizontal View



Scale: 6" = 1' (1/2 scale)

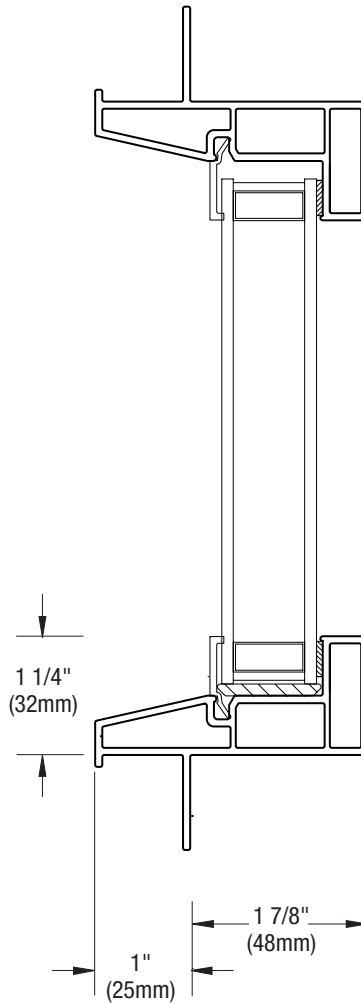
6330 Assembly Drawing (SW)

6000
SERIES
STYLE LINE VINYL

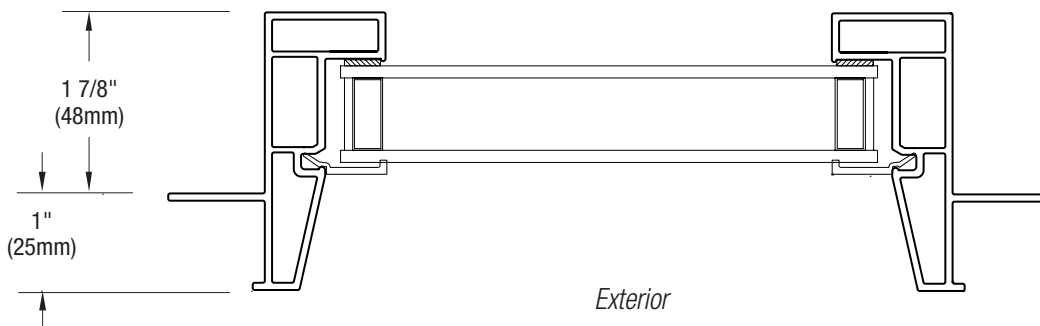
Vertical View

Exterior

Note: 1" Nail fin setback available only in southwest locations. Confirm availability with your Milgard representative.



Horizontal View



Scale: 6" = 1' (1/2 scale)

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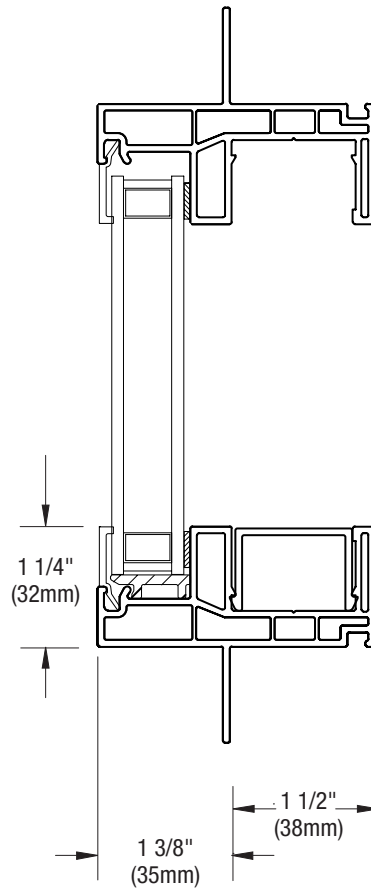
6340/6310-6
NOVEMBER 2008

6310 Assembly Drawing

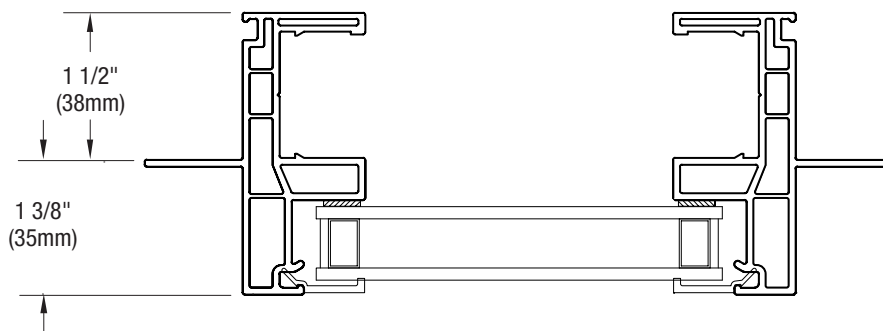
6000
SERIES
STYLE LINE VINYL

Vertical View

Exterior



Horizontal View



Exterior

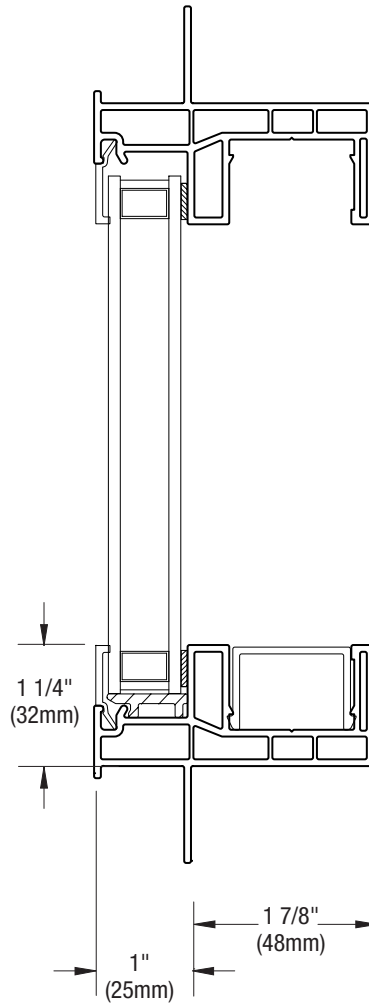
Scale: 6" = 1' (1/2 scale)

6331 Assembly Drawing (SW)

6000
SERIES
STYLE LINE VINYL

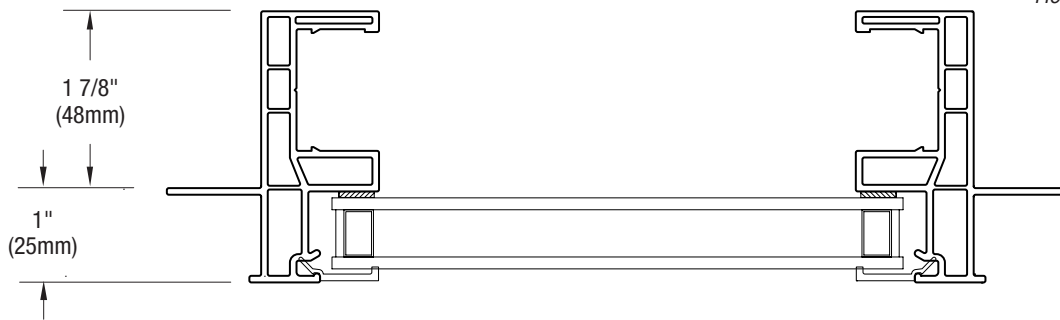
Vertical View

Exterior



*Note: 1" Nail fin setback available only in southwest locations.
Confirm availability with your Milgard representative.*

Horizontal View



Exterior

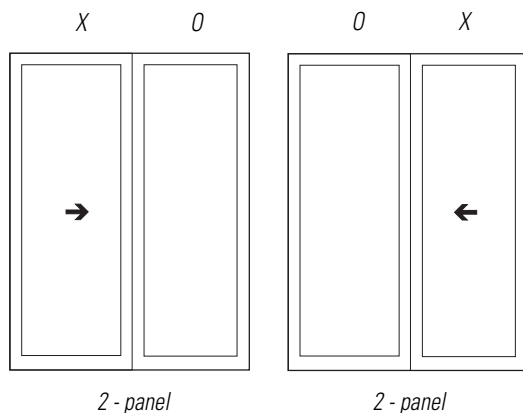
Scale: 6" = 1' (1/2 scale)

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Products shown are not available at all locations – confirm availability with your local Milgard representative.*

6340/6310-8
NOVEMBER 2008

6610 Sliding Doors

6000
SERIES
STYLE LINE VINYL



6610 SLIDING DOORS

- 2 - panel
- Special size doors available*
- O - fixed panel
- Keyed lock available

2-PANEL SIZES

- Min 5'6" Max 6'8" or 8'6"

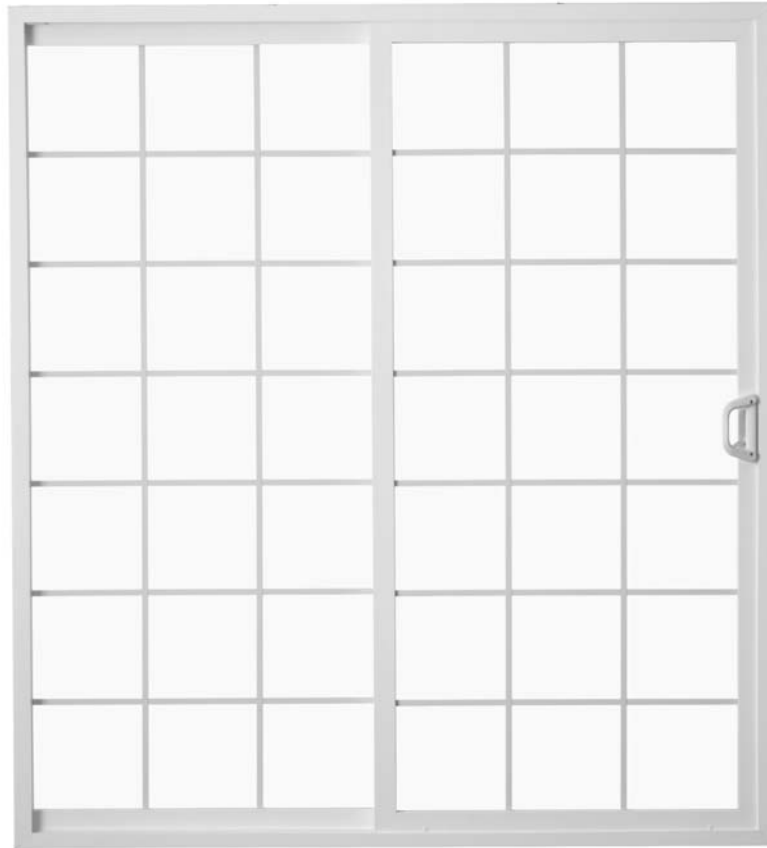
**Note: special sizes available at an additional cost*

NOTE: For engineering approval contact your Milgard representative for any configuration over 40 square feet. Each Milgard Manufacturing plant reserves the right to alter or change sizes and configurations according to location capabilities. Ask your Milgard rep about specialty applications.

Windows over 40 square feet shipped open for field glazing. Varies by location.

6610 Sliding Doors

6000
SERIES
STYLE LINE VINYL



The 6610 series vinyl (PVC) sliding door blends the energy efficiency and low maintenance of vinyl with the clean lines and low profile appearance of an aluminum patio door. The result is a more contemporary look with maximum glazing area. Available in White and Tan homogenous door frames, the 6610's durable vinyl exterior will never need painting.

Like all Milgard windows, doors and skylights, the 6610 Series carries a Full Lifetime Warranty to the original single family homeowner covering both materials and labor.

Commercial and apartment projects are covered by a 10-year warranty from date of manufacture, covering all materials and labor, including the glazing unit.

CONFIGURATIONS

The 6610 series are designed as a 2 panel only inside sliding door (the sliding panel, or "vent" slides inside the stationary panel). The sliding glass door is constructed from fixed and moving panels mounted in a perimeter frame specifically engineered for insulating glass.

COMPONENTS

FRAME

Frame components are made from high performance polyvinyl chloride, available in White and Tan door frames. The 6610 series are designed to offer outstanding visual appeal and low maintenance. Mitered corners are precision welded resulting in an air and water tight seal. Standard frame depth is 4-1/8", ideal for both new construction and for use as a replacement sliding door.

6610 Sliding Doors

6000
SERIES
STYLE LINE VINYL

NAIL-ON FIN

A 1-1/16" pre-punched nail flange extends around the perimeter frame, securing the door in rough openings and acting as a part of the flashing system. The 6610 series offers a removable nailing fin for use as a replacement door for particular block frame applications. Fin setbacks are available in 1-3/8" from outside of frame; also in 1" (6630 series) for our SW locations using 3 coat stucco applications (not available at all locations).

WEEP SYSTEM

Hollow sill construction and offset weep holes that release any accumulated moisture from track and help prevent blow back, or water seeping to the interior caused by a combination of wind and rain.

GLAZING MATERIAL

AAMA approved glazing tape adheres glass to the fixed panel frame which seals and cushions the glass. Rigid vinyl setting blocks are used to support the unit above the sill, preventing glass slippage. Extruded vinyl glazing (snap-in) bead is applied around the exterior edge.

GLASS

Milgard's sliding glass doors utilize glazing quality tempered safety glass in 3/4" overall insulating glass units. Specialty glass options are available upon request (see Glass & Energy Saving Options Section for types and descriptions).

VENT PANEL

Its roller assembly rides on a stainless steel monorail track for easy operation and durability. This raised track in the frame sill helps keep the vent panel free from interference by foreign particles that may collect in the sill.

WEATHERSTRIPPING

Silicone-treated water-repellent polypropylene fin seal weatherstripping provides a durable, weather tight seal. This weatherstripping is installed in an integral, continuous keyway around the entire perimeter of the vent panel.

ROLLER ASSEMBLY

Stainless steel rollers ride on a raised stainless steel monorail track and can be easily adjusted for proper alignment with a screwdriver.

LOCKING ASSEMBLY

The locking assembly is a component of the handle set. The door may be locked or unlocked easily from inside by the flip-latch mechanism in the handle. An anti-lift device is installed in the frame to prevent the sliding panel from being removed when the door is closed and locked. Optional keyed lock available.

SCREEN

Screen frames are heavy-duty extruded aluminum,

reinforced with hidden aluminum corner clips.

Screens come standard with matching frame color.

The fiberglass charcoal screen mesh is strong, durable and easy to replace. Four nylon rollers contained in fully adjustable aluminum housings ride on raised monorail for easy operation.

ENERGY PACKAGES

Milgard offers two energy efficiency upgrade packages that offer increased U-Value performance. 3D™ and 3D MAX™ use the ENERGY STAR® criteria from each climate zone and utilize materials that are tailored to each individual climate to increase energy efficiency. The combination of the frame material, product design and glazing unit make up the 3 components of the energy packages. The Style Line Series receives up to 26% increase in energy efficiency with the 3D MAX package.

Note:

- Packages available in most markets. Please see your local sales representative for details.
- 3D and 3D MAX energy packages are based on insulated glass units with Single Strength (3/32") and Double Strength (1/8") glass. Some glass thicknesses and internal grid combinations may result in lower energy performance.
- 3D and 3D MAX energy packages are not included with the 8125 Double Slider, 5621WS Wide Stile Sliding Door, 8225 Double Hung when selecting grids and are currently not available in breather tube applications.

OPTIONS

GRIDS

Available in 5/8" flat. Color-matched to frame.

1-1/16" sculptured grid available in select markets – check with your Milgard representative.

GLASS

Refer to glass section.

Many more options are available. Please check with your Milgard Representative.

TEST STANDARDS

See Test Reports/Energy Ratings section.

Caution: The use of petroleum based fuels or solvents as release agents in stucco wall installations or glass cleaning will chemically attack materials used in seals and other components, and voids the Milgard Warranty. The use of wax based release agents is recommended.

Expanding foam for insulation purposes should not be used.

6610 Assembly Drawing

6000
SERIES
STYLE LINE VINYL

Vertical View

Exterior

Single glaze option
(Hawaii and international
markets only)

2 15/16"
(74mm)

1 3/8"
(35mm)

2 3/4"
(67mm)

Horizontal View

Single glaze option

2 3/4"
(67mm)

1 3/8"
(35mm)

Exterior

Scale: 6" = 1' (1/2 scale)

6610-5
NOVEMBER 2008

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Products shown are not available at all locations – confirm availability with your local Milgard representative.

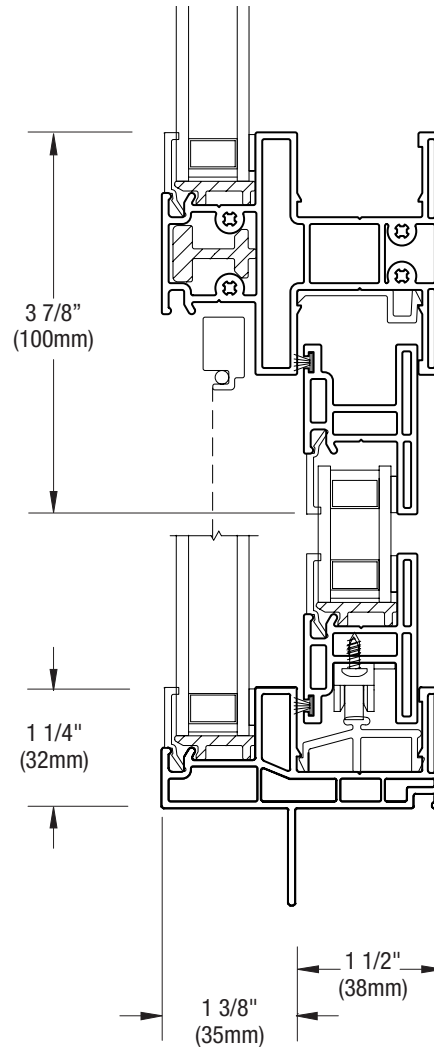
Assembly Drawing

**STYLE LINE MEETING RAIL
HALF VENT BELOW**

6000
SERIES
STYLE LINE VINYL

Vertical View

Exterior



Scale: 6" = 1' (1/2 scale)

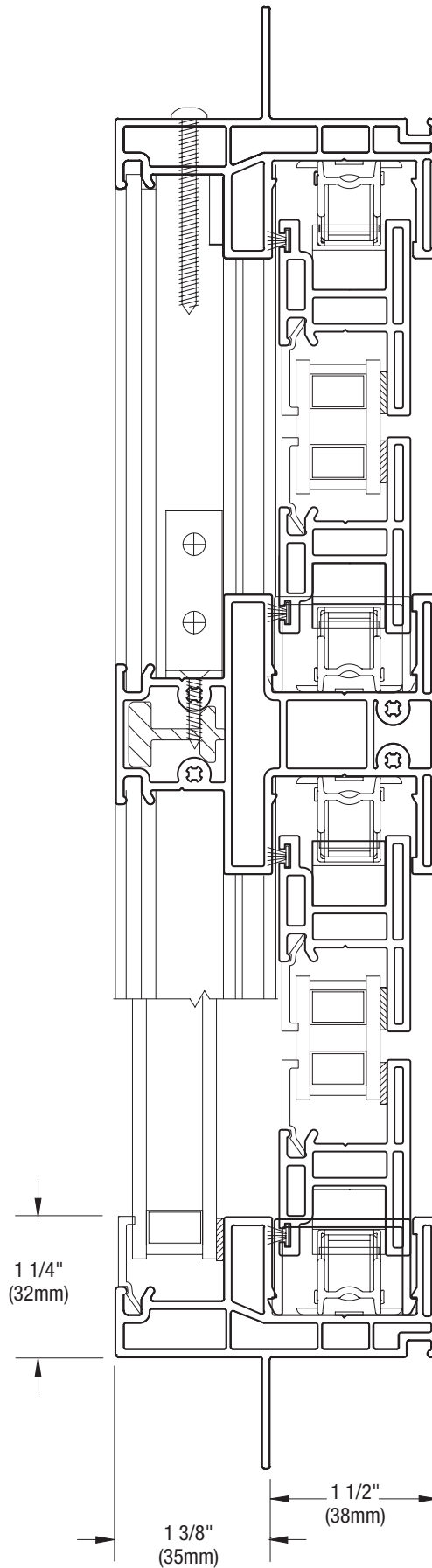
Assembly Drawing

STYLE LINE MEETING RAIL DOUBLE SINGLE HUNG

6000
SERIES
STYLE LINE VINYL

Horizontal View

Exterior



Scale: 6" = 1' (1/2 scale)

Due to continual product research and development, details may be changed at any time. ©2008

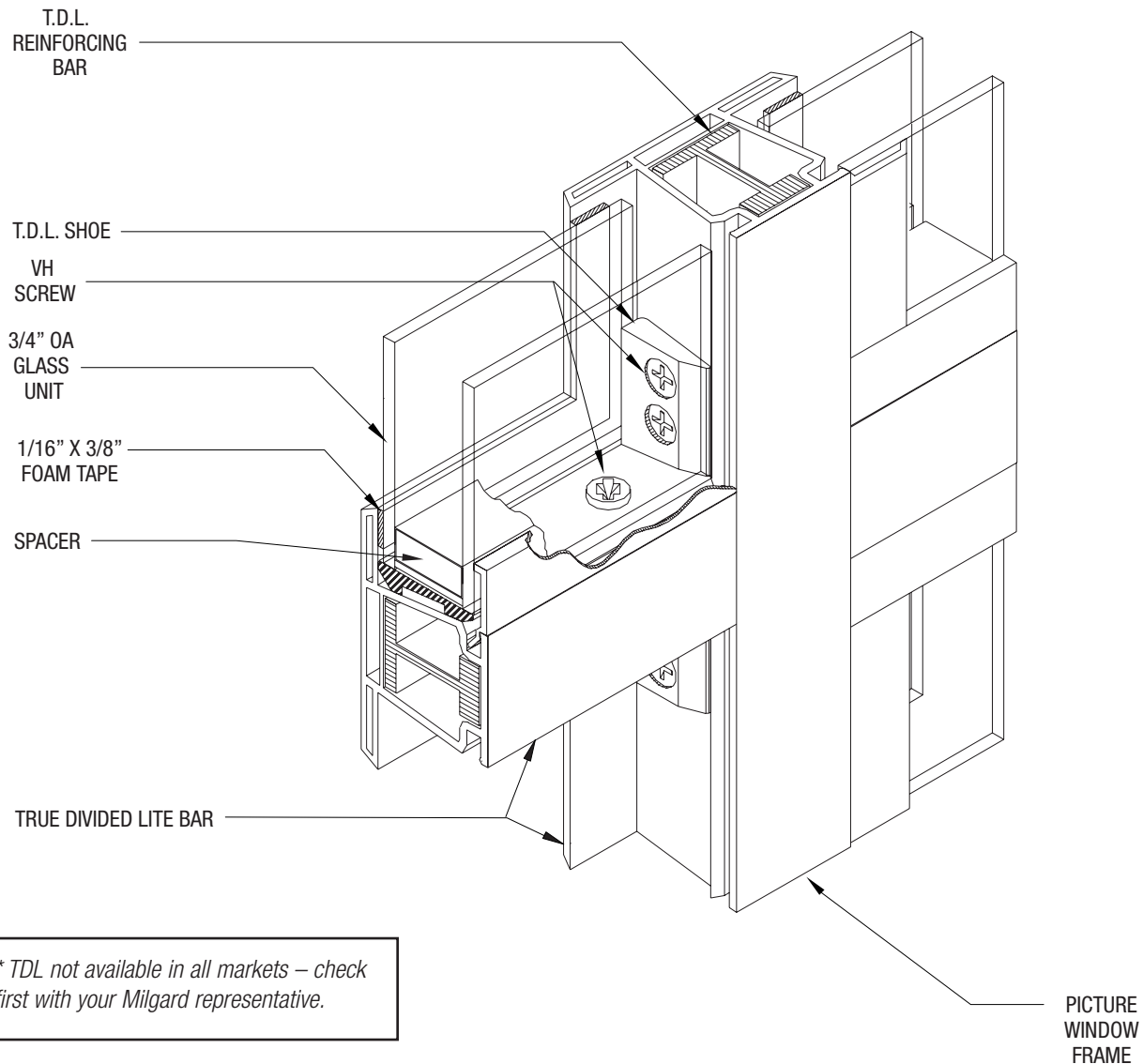
Products shown are not available at all locations – confirm availability with your local Milgard representative.

**6000 COMBO-2
NOVEMBER 2008**

True Divided Lights (TDL)*

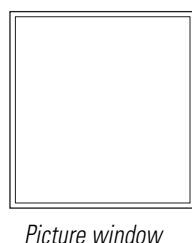
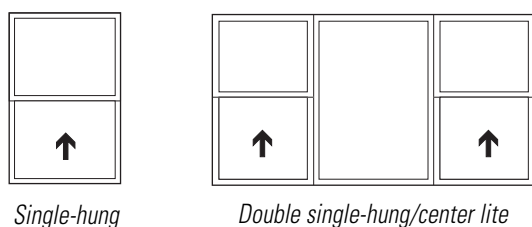
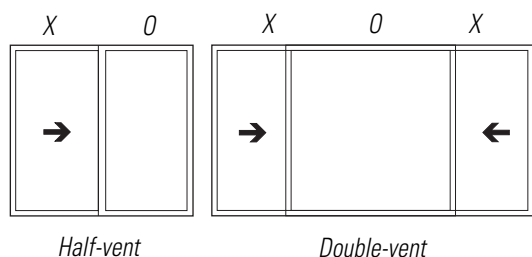
6000
SERIES
STYLE LINE VINYL

True divided lites are an option in picture window configurations.



6000 Series Retrofit Windows

6000
SERIES
STYLE LINE VINYL



- **HALF-VENT**
 - Min 1'1" Max 6'5"
- **DOUBLE-VENT**
 - Min 3'1" Max 10'5"
- **SINGLE-HUNG**
 - Min 1'2" Max 4'7"
- **DOUBLE SINGLE-HUNG**
 - Min 2'2" Max 7'6"
- **PICTURE WINDOW**
 - Min 1'1" Max 8'6"

NOTE: For engineering approval contact your Milgard representative for any configuration over 40 square feet. Each Milgard Manufacturing plant reserves the right to alter or change sizes and configurations according to location capabilities. Ask your Milgard rep about specialty applications.

Windows over 40 square feet shipped open for field glazing. Varies by location.

6000 Series Retrofit Windows

6000
SERIES
STYLE LINE VINYL



The 6000 Z-Bar™ series vinyl (PVC) Retrofit windows offer the outstanding insulating properties, low maintenance, and contemporary aesthetic appeal only vinyl can provide. Available in White or Tan homogenous window frames, the 6000 Z-Bar series durable vinyl exterior will never need painting. The windows will maintain their color and shape and can be constructed to your exact size specifications, subject to review.

Like all Milgard windows, doors and skylights, the 6000 Z-Bar series line of retrofit windows carries a Full Lifetime Warranty to the original single family homeowner covering both materials and labor.

Commercial and apartment projects are covered by a 10-year warranty from date of manufacture, covering all materials and labor, including the glazing unit.

CONFIGURATIONS

The 6000 Z-Bar series offers a complete line of windows specifically engineered for replacing old windows of various frame types in a variety of wall construction styles. We will match your existing window sizes – so there is no need to disturb your home's structural framing.

COMPONENTS

FRAME

Frame components are made from high performance polyvinyl chloride, available in White or Tan window frames. The 6000 Z-Bar series is designed to offer outstanding visual appeal and low maintenance. Mitered corners are precision welded resulting in an air and water tight seal. Standard frame depth is 2-11/16", ideal for use as a replacement window.

6000 Series Retrofit Windows

6000
SERIES
STYLE LINE VINYL

The 6000 block frame/sloped sill series features a block frame profile with the nail fin removed, and a sloped sill adapter added to accommodate various sloped sill angles encountered in the field.

FLUSH FIN

The integral extruded, hollow-frame flush fin extends 1-1/2" to cover old frame material left intact in existing structure. Score marks on back side of flush fin indicate cutback locations for field trimming if less flush fin reveal is desired.

WEEP SYSTEM

Hollow sill construction and weep holes release any accumulated moisture from sill.

GLAZING MATERIAL

AAMA approved glazing tape adheres glass to the frame which seals and cushions the glass. Rigid vinyl setting blocks are used to support the unit above the sill, preventing glass slippage. Extruded vinyl glazing (snap-in) bead is applied around the exterior edge.

Glass insulating dual glazed panes, 3/4" in overall thickness, are butyl sealed for energy efficiency. Specialty glass options are available upon request.

SCREEN

Screen frames are cambered aluminum, reinforced with rigid plastic corner clips. Screens come standard with matching frame color. The fiberglass charcoal screen mesh is strong, durable and easy to replace. Four screen clips mount screen flush with perimeter frame.

ENERGY PACKAGES

Milgard offers two energy efficiency upgrade packages that offer increased U-Value performance. 3D™ and 3D MAX™ use the ENERGY STAR® criteria from each climate zone and utilize materials that are tailored to each individual climate to increase energy efficiency. The combination of the frame material, product design and glazing unit make up the 3 components of the energy packages. The Style Line Series receives up to 26% increase in energy efficiency with the 3D MAX package.

Note:

- Packages available in most markets. Please see your local sales representative for details.
- 3D and 3D MAX energy packages are based on insulated glass units with Single Strength (3/32") and Double Strength (1/8") glass. Some glass thicknesses and internal grid combinations may result in lower energy performance.
- 3D and 3D MAX energy packages are not included with the 8125 Double Slider, 5621WS Wide Stile Sliding Door, 8225 Double Hung when selecting grids and are currently not available in breather tube applications.

OPTIONS

GRIDS

Available in 5/8" flat or 1-1/16" sculptured grid available in select markets. Check with your Milgard representative.

GLASS

Refer to glazing material section.

Many more options are available. Please check with your Milgard representative.

TEST STANDARDS

See Test Reports/Energy Ratings section.

Caution: The use of petroleum based fuels or solvents as release agents in stucco wall installations or glass cleaning will chemically attack materials used in seals and other components, and voids the Milgard Warranty. The use of wax based release agents is recommended.

Expanding foam for insulation purposes should not be used. Non-expanding foam or loose packed batt insulation is recommended.

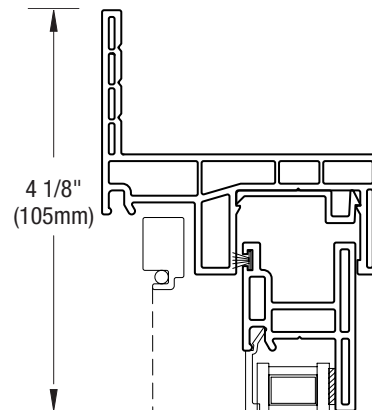
The nailing fin may be removed as needed for particular block frame applications

1-1/16" sculptured grid available in select markets – check with your Milgard representative.

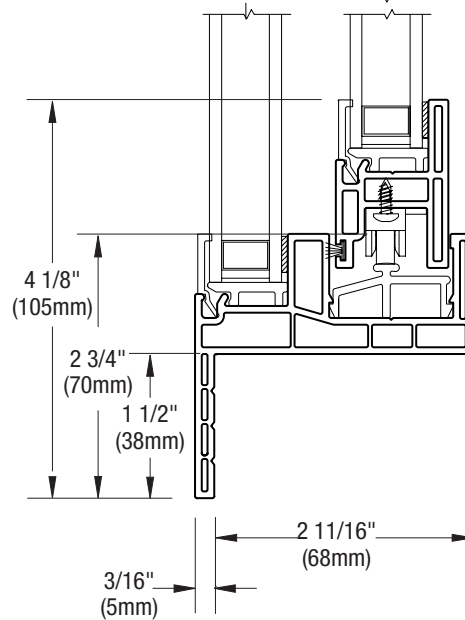
6170 Z-Bar Assembly Drawing

6000
SERIES
STYLE LINE VINYL

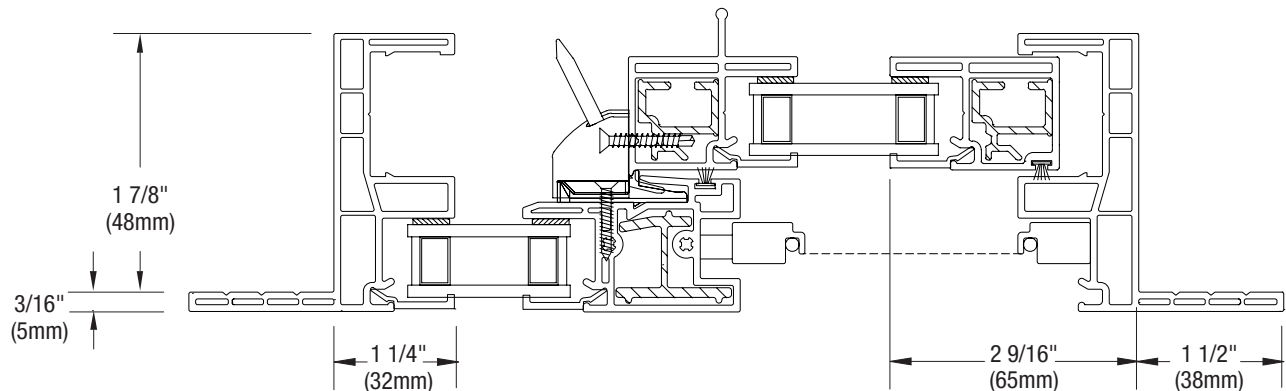
Exterior



Vertical View



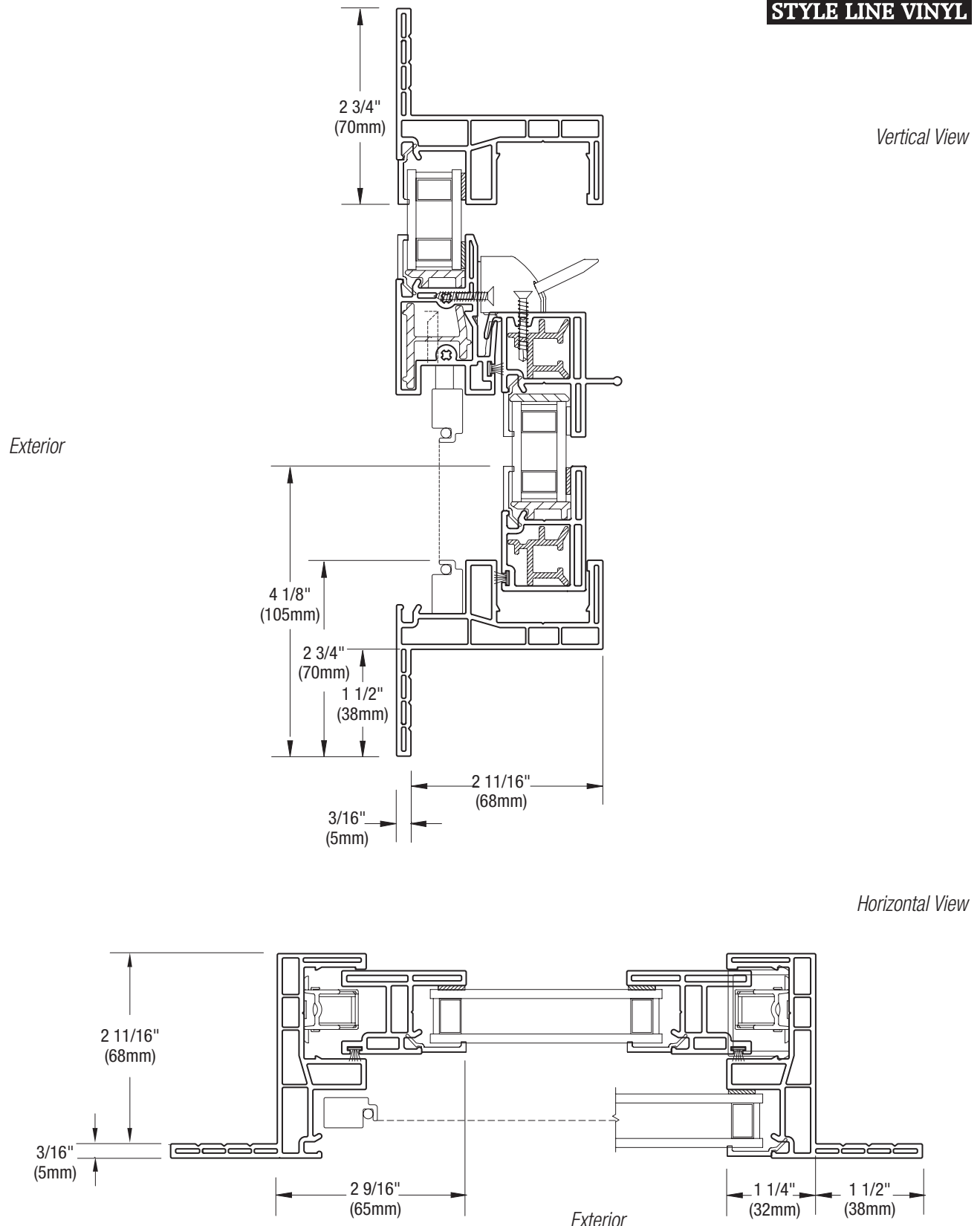
Horizontal View



Exterior

Scale: 6" = 1' (1/2 scale)

6270 Z-Bar Assembly Drawing



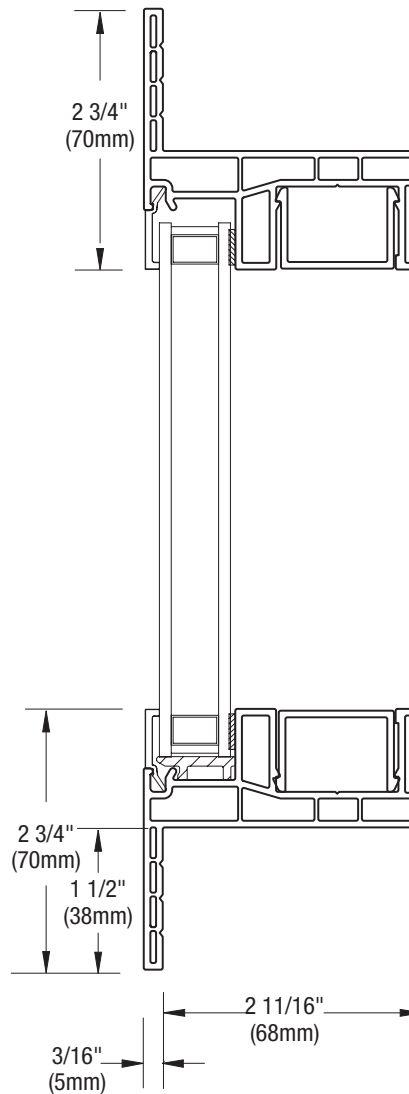
Scale: 6" = 1' (1/2 scale)

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6370 Z-Bar Assembly Drawing

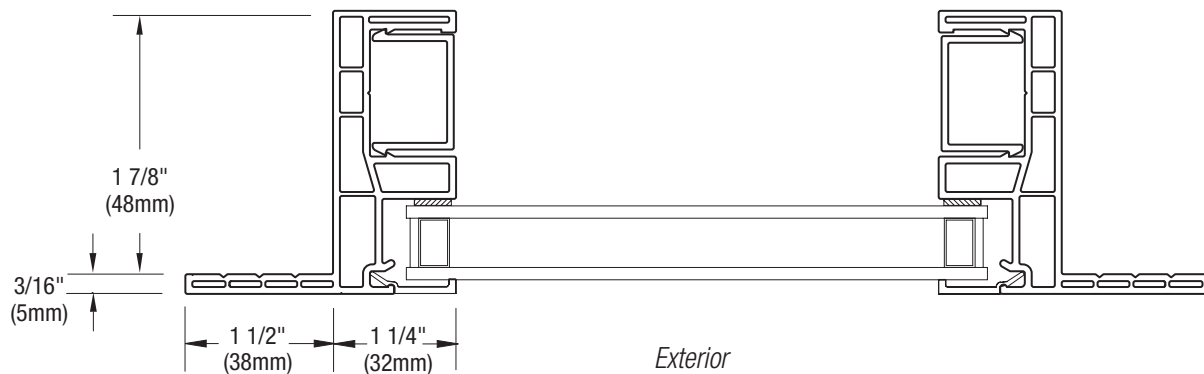
6000
SERIES
STYLE LINE VINYL

Exterior



Vertical View

Horizontal View



Exterior

Scale: 6" = 1' (1/2 scale)

Block Frame/Sloped Sill

6000
SERIES
STYLE LINE VINYL

