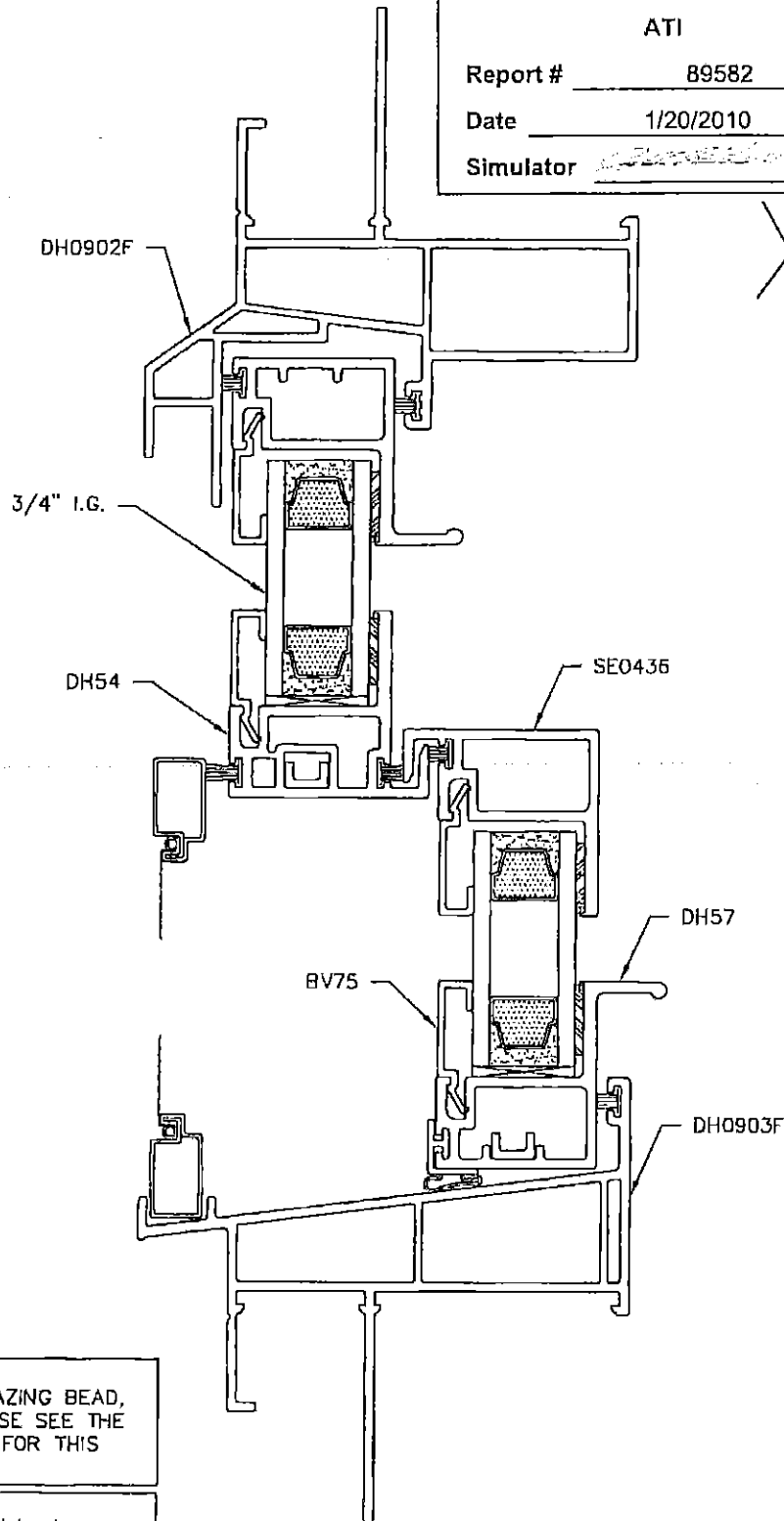


CORRECT

ATI  
 Report # 89582  
 Date 1/20/2010  
 Simulator



**NOTE:**  
 FOR OTHER PROFILE, GLAZING BEAD,  
 & GLASS OPTIONS, PLEASE SEE THE  
 LINEAL PROFILE CHARTS FOR THIS  
 SYSTEM.

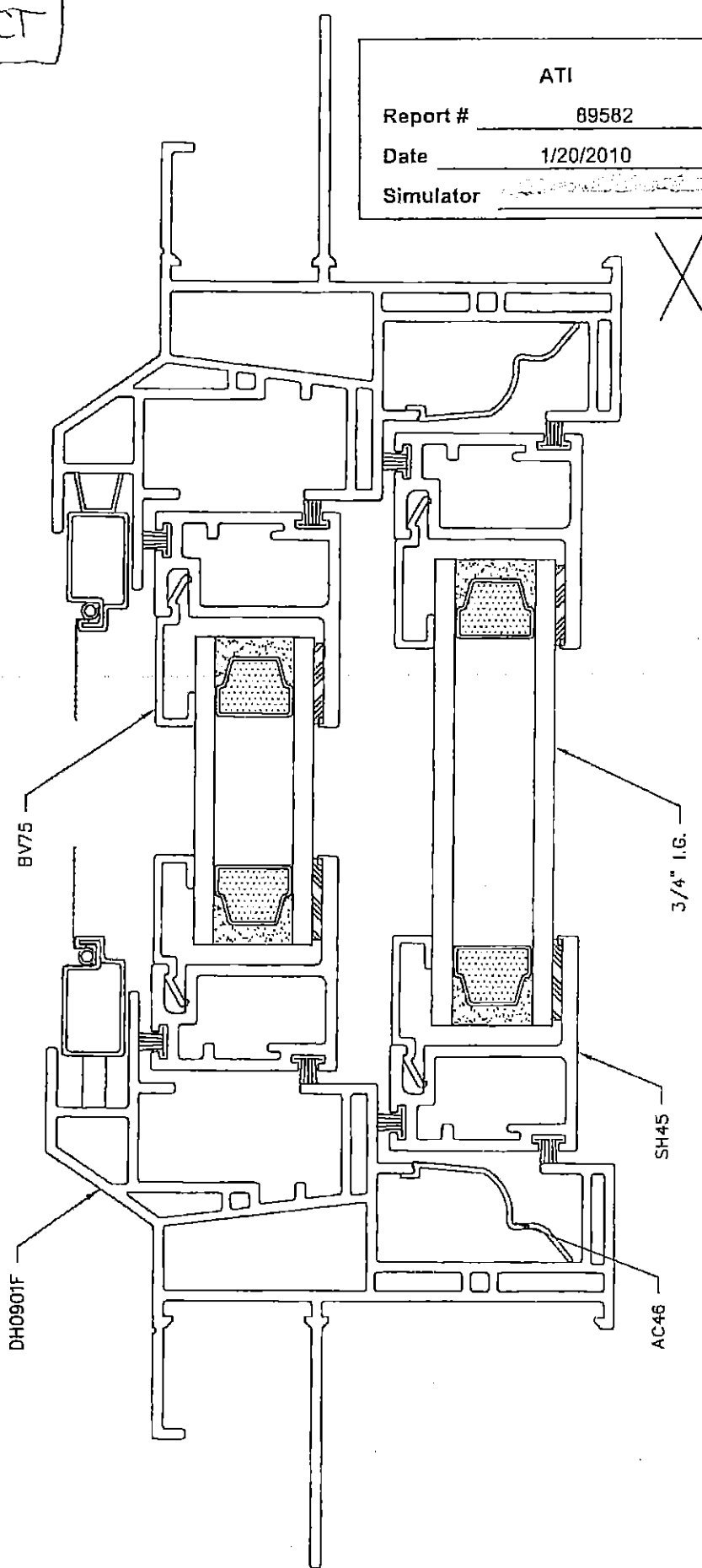
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 100 VEKA DRIVE  
 FOMBELL, PA 16123

		DRAWN: JLB	DATE: 9 SEPT 02	SCALE: 3/4
		CHK'D:	DATE:	APP'VD:
		TITLE DOUBLE HUNG DH09FWW W/DH57 & SE0436, VERTICAL ASSEMBLY		DWG. # DH09FWW-Vb
	REVISIONS		DATE	

CORRECT



ATI  
 Report # 89582  
 Date 1/20/2010  
 Simulator



VEKA INC.  
 100 VEKA DRIVE  
 FOMBELL, PA 16123

DRAWN: JLB DATE: 9 SEPT 02 SCALE: FULL  
 CHK'D: DATE: APPVD:  
 TITLE: DOUBLE HUNG DH09FWW, W/BV75 DWG. # DH09FWW-HB  
 EXT: GLAZED, HORIZONTAL ASSEMBLY

REVISIONS	DATE

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*LASTING QUALITY, VALUE AND SERVICE SINCE 1953*

SECTION 08560

VINYL WINDOWS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Vinyl Replacement Windows.

1.2 RELATED SECTIONS

- A. Section 06100: Rough Carpentry.
- B. Section 06200: Finish Carpentry.

1.3 REFERENCES

- A. AAMA/WDMA/CSA 101/I.S.2/A440-05-AAMA 1701.2-02 – Standard/Specification for Windows, Doors and Unit Skylights.
- B. AAMA 701/702; 2000 - Combined Voluntary Specifications for Pile Weather strip and Replaceable Fenestration Weather seals.
- C. AAMA 902; 1999 - Voluntary Specification for Sash Balances.
- D. ASTM E 283; 1999 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen.
- E. ASTM E 330; 1997 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.
- F. ASTM E 547; 2000 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Cyclic Static Air Pressure Difference.
- G. ASTM E 774; 1997 - Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units.
- H. ASTM F 588; 1997 - Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact.
- I. NFRC 100-97 - Procedure for Determining Fenestration Product U-Factors.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Submit the following documents for each type of window.
  - 1. Manufacturer's technical data, product descriptions and installation guides.
  - 2. Elevation for each style window specified indicating its size, glazing type, muntin type and design.



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3. Manufacturer's head, jamb and sill details for each window type specified.
- C. Selection Samples: For each finish product specified, a complete set of color chips representing manufacturer's full range of available colors.
- D. Verification Samples: Provide operating units of each style window specified.
  1. Verification samples may be operating scaled-down mock-ups of actual-size units.
  2. Operating hardware such as balances, sash locks and weather-stripping.
  3. Verification samples will be returned to manufacturer's representative at project closeout.
- E. Test Reports: Submit certified independent testing agency reports indicating window units meet or exceed specified performance requirements.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum ten (10) years producing vinyl (PVC) windows.
- B. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size.
- C. Source Limitations: Obtain window units from one manufacturer through a single source.
- D. Provide window units independently tested and found to be in compliance with AAMA/WDMA/CSA 101/I.S.2/A440-05-AAMA 1701.2-02 and performance standards listed above.
- E. Code Compliance: Provide windows that are labeled in compliance with the jurisdiction having authority over the project.
- F. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  1. Finish areas designated by Architect.
  2. Do not proceed with remaining work until workmanship and color are approved by Architect.
  3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver windows to project site in undamaged condition; handle windows to prevent damage to components and to finishes.
- B. Store products in manufacturer's unopened packaging, out of direct sunlight or high temperature locations, until ready for installation.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

- A. Submit manufacturer's standard warranty against defects in workmanship and materials.



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1. Limited Lifetime Limited Transferable warranty on extruded solid vinyl member and component parts. Insulated glass is warranted against material obstruction of transparency resulting from film formation or dust collection on the interior glass surfaces for a period of twenty (20) years. Consult warranty for complete details.
2. The warranty period for commercial project work such as apartments, housing authorities and other buildings not used by individual homeowners is 10 years, covering all vinyl, glass and component parts. Consult warranty for complete details.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Mercury/Excelum, Inc., which is located at: 215 South Main St.; East Windsor, CT 06088; Toll Free Tel: 800-292-1803; Tel: 860-292-1800; Email: [Sales@mercuryexcelum.com](mailto:Sales@mercuryexcelum.com); Web: [www.mercuryexcelum.com](http://www.mercuryexcelum.com).
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- C. Substitutions must be submitted to Architect two weeks prior to bid opening.

2.2 NEW CONSTRUCTION ADVANTAGE SERIES 9 DOUBLE-HUNG WINDOW

- A. Construction.
  1. Nominal 0.070 inch frame thickness polyvinyl chloride (PVC) with miter cut and fusion welded corners. Frame shall have an integral, pre-punched nail fin; jambs and head will have a factory-applied, welded 3-1/2" face flat casing and sill will have bull nose trim. Sash shall be a nominal 0.065 inch thickness with fusion welded corners.
  2. Color: White.
  3. Glazing: 3/4 inch Nominal thickness insulated glass units secured to sash frame using a sealant and glazing bead. Complies with ASTM E 774.
    - a. Clear.
  4. Sash Balances: Factory calibrated block and tackle, complying with AAMA-902. Balance cords shall be anchored to locking terminal housings when the sash is tilted in. The locking terminal and pivot bar system shall provide accurate alignment of the sash and the frame during operation.
  5. Sash Locks: Cam type locks anchored with screws driven through the sash rail and into an extruded aluminum reinforcing bar. Double locks where openings exceed 30 1/4 inches wide.
  6. Weather Stripping: In compliance with AAMA 701.2.
  7. Screens: Extruded aluminum locking, half screen with 18 x 16 charcoal finished fiberglass mesh.
  8. Extension Jamb: Factory-applied, custom width PFJ pine extension jamb fastened with clip system and galvanized staples around perimeter of window.
- B. Performance.
  1. Air Infiltration: Maximum 0.28 cfm/sq. ft. at 1.57 psf (25 mph) in accordance with ASTM E 283.
  2. Water resistance: no leakage when tested at 7.5 psf in accordance with ASTM E 547.
  3. Uniform structural test pressure at 75.0 psf positive and negative in accordance with ASTM E 330.
  4. Structural Rating: H-R50 - Test Size: 33-7/8 inches x 77 inches in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-05-AAMA 1701.2-02.



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5. Forced Entry: Type A, Grade 10 in accordance with ASTM F 588.
6. Thermal Transmittance: The following values are in accordance with NFRC 100-97.
  - a. PPG Solarban 60 Low-E/Argon Gas: U-Factor = 0.29 / R-Value = 3.45 / SHGC = .31 / VT = .57.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify rough opening size is of sufficient size to receive window unit and complies with manufacturer's requirements for opening clearances.
- B. Verify that sill plate is level.
- C. Notify Architect of unacceptable conditions before proceeding with installation.

3.2 INSTALLATION

- A. Install window unit in accordance with manufacturer's printed instructions.
- B. Apply sealant around perimeter of window unit between nail fin and exterior sheathing of wall. Refer to Division 7 Section "Joint Sealants".
- C. Install window unit level and plumb. Center window unit in opening and secure window unit by nailing through nail fin and screw through jambs as indicated in manufacturer's instructions.
- D. Flash window in accordance with AAMA's "Standard Practice for Installation of Windows with a Mounting Flange in Stud Frame Construction".
- E. Insulate between window frame and rough opening with low expansion foam insulation. Refer to Division 7 Section "Building Insulation".

3.3 ADJUSTING

- A. Adjust units for smooth operation without binding or racking.
- B. Adjust sash locks and screens for smooth operation.

3.4 CLEANING

- A. Clean soiled surfaces and glass prior to substantial completion.

3.5 PROTECTION

- A. Protect window unit from damage until substantial completion. Repair or replace damaged units.

END OF SECTION







