



**Farabaugh Engineering and Testing Inc.**

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**PERFORMANCE TEST REPORT**

**4300/5100 SERIES  
PICTURE WINDOW**

**FIXED WINDOW**

**F-R40  
(60" X 60")**

**FOR**

**DOVE INDUSTRIES  
767 SAN SOUCI PARKWAY  
WILKES BARRE, PA 18702**

**Project No. T206D-04**

**10/14/04**

**REVISED:5/2/07**

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**PERFORMANCE TEST REPORT**

Manufacturer: DOVE INDUSTRIES  
767 SAN SOUCI PARKWAY  
WILKES BARRE, PA 18702


**Product Identification**

Product Type: Fixed Window  
Series/Model #: 4300/5100 Series Picture Window  
Specification: AAMA/NWWDA 101/I.S.2-97  
Designation: F-R40 (60" X 60") AAMA/NWWDA 101/I.S.2-97  
GRADE 40  
Product Description: Attached  
Test Results: Attached  
Test Equipment: FET  
Testing Date: 10/11/03

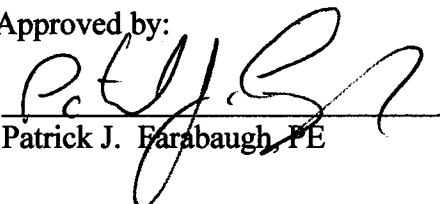
Detailed assembly drawings showing wall thickness of all members, corner construction and hardware application are on file and have been compared to the sample submitted. A copy of this report and test sample will be retained at FET for a period of 4 years. The results obtained apply only to the specimen tested. No conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen may be drawn from this test.

The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

Prepared by:

  
Paul G. Farabaugh

Approved by:

  
Patrick J. Farabaugh, PE

### **Product Description**

#### **General:**

Test sample was comprised of Dove Industries, 4300/5100 Series, Picture Vinyl Window, with an overall master frame size measuring 60-1/2" wide X 60-3/8" high. The frame was of welded mitered type corner construction. A 1-1/2" nailing flange was around the perimeter of the frame.

#### **Weather-stripping:**

None

#### **Operators and Other Hardware:**

None

#### **Glazing System:**

The fixed lite was interior drop glazed with 3/4" (nominal) thick insulated glass. The fixed lite utilized two (1/8" nominal) thick clear annealed glass lites with a 1/2" perimeter metal spacer. The glazing was set on a bead of silicone along the perimeter of the frame. A interior snap-in rigid vinyl-glazing bead secured the glass.

#### **Weep Holes:**

Four (3/16" diameter) weep holes were located on the bottom of the glazing track, two (one on top and one just below into middle layer) 2-1/4" from each end. Two each end of sill. Two (1-3/8" w x 5/16"h reduced to 1-3/16" w x 1/8" h) weep slots with flap were located on the exterior face of the sill, one 3-1/4" in from each end.

#### **Sealant:**

Silicone sealant was applied to all the following areas:

- Perimeter of the glazing was set in continuous bead of silicone.
- Nailing flange was set in continuous bead of silicone on perimeter of the buck

#### **Anchorage:**

The perimeter of the wood buck framing members consisting of Grade 2 S.P.F lumber frame. A 1-1/2" nailing flange was around the perimeter of the frame. A #6 x 1-1/4" long flat head wood screws were used to attach the nailing flange to the buck. The screw pattern for the nailing flange into the buck was 11" c/c around the perimeter. Silicone sealant was used at nailing flange to buck location and around the perimeter.

**4300/5100 SERIES PICTURE FIXED WINDOW**  
**(MODEL 4300/5100)**  
**Test Results**

<b><u>Paragraph</u></b>	<b><u>Test Title / Referenced Test Method</u></b>	<b><u>Test Results</u></b>	<b><u>Allowable</u></b>
<b><u>Gateway Performance Requirements</u></b>			
2.1.2	<b>Air Infiltration Test</b> (ASTM E-283-91) @ 1.57 psf <i>The test specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 for Air Infiltration.</i>	0.02 cfm/sf	0.30 cfm/sf
2.1.3	<b>Water Resistance Test</b> (ASTM E547-96) @ 2.86 psf	No penetration	No penetration
2.1.4.2	<b>Uniform Load Structural Test</b> (see optional performance results)		
2.1.7	<b>Welded Corner Test</b>	meets	As Stated
2.1.8	<b>Forced Entry Resistance</b> (ASTM F588-97) Type D (Section 10) Sec. 10.2.4.2 Hand & Tool Manipulation Test	No Failure	As Stated
<b><u>Specific Window Performance Results</u></b>			
<b><u>Optional Performance Results</u></b>			
4.3	<b>Water Resistance Test</b> (ASTM E547-96) @ 8.25 psf	No penetration	No penetration
4.4.2	<b>Uniform Load Structural Test</b> (ASTM E-330-97) @ 60 psf positive @ 60 psf negative	0.005" * 0.004" *	(0.4% $\times$ L) 0.044" 0.044"

\* - Maximum Deformations.



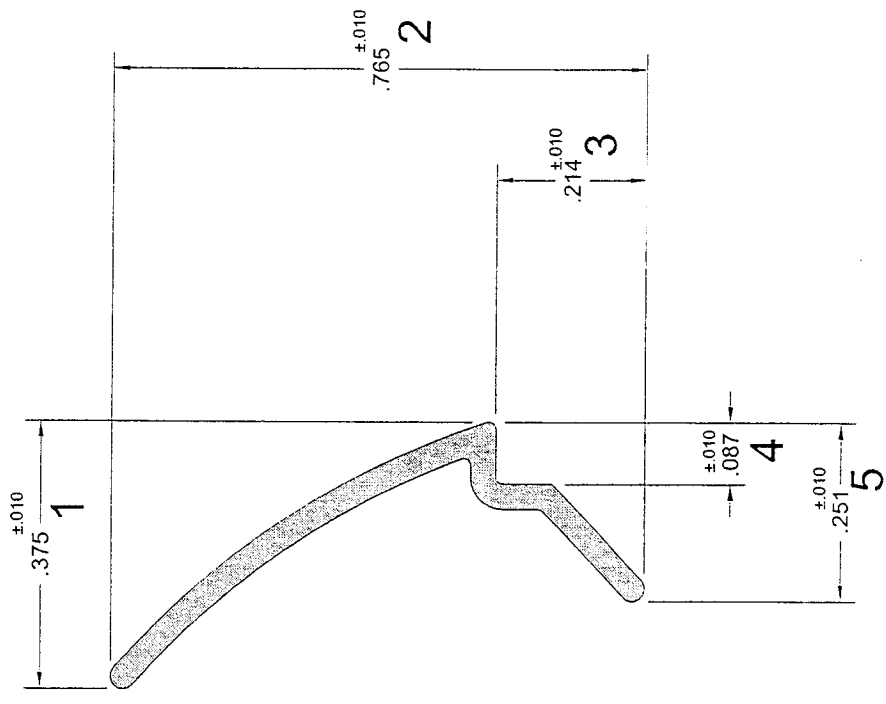


PART NAME: 5216  
 DESCRIPTION: GLAZING BEAD  
 SUPPLIER/PLANT: CHELSEA BUILDING PRODUCTS

ILLUSTRATION OF PART AND CONTROL POINTS

CHELSEA BUILDING PRODUCTS, INC.  
 565 CEDAR WAY, OAKMONT PA 15139  
 COPYRIGHT 2002  
 THIS DRAWING AND ITS CONTENTS ARE THE SOLE PROPERTY OF CHELSEA BUILDING PRODUCTS, INC. ANY UNAUTHORIZED USE OR REPRODUCTION IS STRICTLY PROHIBITED.

- NOTES:**
- MATERIAL = RIGID P.V.C.
  - FLEXIBLE P.V.C. = [REDACTED]
  - EXTERIOR COATING = [REDACTED]
  - LAMINATE = [REDACTED]
  - THINNER INTERIOR WALLS = [REDACTED]
  - WALL THICKNESS = .035
  - RADIUS = .010 R
  - LOCATION FOR IMPACT TEST
  - ANGULARITY =
  - PERPENDICULARITY =
  - PARALLELISM =
  - FLATNESS =
  - SPECIFICATION LENGTH TO ±3/8"
  - ANGULARITY TO BE ±1°
  - PROFILE MUST MEET Q-303 PER AAMA SPECIFICATIONS
  - PROFILE MUST MEET Q-304 PER AAMA SPECIFICATIONS
  - PROFILE MUST MEET Q-901 PER AAMA SPECIFICATIONS
  - PROFILE MUST MEET Q-902 IMPACT RESISTANCE PER AAMA SPECIFICATIONS



FARADALGH ENGINEERING AND TESTING, INC.  
 PG-F 7206D-04

WEATHERSTRIP SPECIFICATION	
SITATION	WEATHERSTRIP TYPE
FUNCTIONAL CHECK	
5203 JAMB	
5204 FRAME	
5231 FRAME	
5241 FRAME	
5207 MEETING RAIL	
5208 STILE	

CUSTOMER LENGTH	CHELSEA CUT LENGTH	TOLERANCE
BLG 10/30/02		
BLG 10/22/02		
BLG 7/22/02		
BY	DATE	

DRAWN DATE: 06-18-02  
 Use the caliper diagram as your guide to measure the following control points.  
 Measure the following control points using #1 on the caliper diagram: 1,2,5  
 Measure the following control points using #2 on the caliper diagram: 4  
 Measure the following control points using #3 on the caliper diagram:  
 Measure the following control points using #4 on the caliper diagram:  
 Frequency of sampling: Process Specialist- 3 samples per shift recorded every 4 hours.  
 Auditor- 1 sample per shift recorded 1 hour after shift start.

IF ANY CONTROL POINTS ARE NOT IN SPEC.  
 CORRECTIVE ACTION REQUIRED