

**PERFORMANCE TESTS IN ACCORDANCE WITH  
AAMA/WDMA/CSA 101/I.S.2/A440-08 & A440S1-09**



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**1.0 INTRODUCTION**

Air-Ins Inc. laboratory was retained by "PH Tech Inc." to test a door according to the performance levels in the AAMA/WDMA/CSA 101/I.S.2/A440-08 & A440S1-09 Standards. The original report issued to "PH Tech Inc." is hereby reissued to "MI Windows and Doors" for their use as an under licence product manufacturer. The sample components and manufacturing are documented in section 2.0.

Note concerning the use of units of measurement in this report:

According to the AAMA/WDMA/CSA 101/I.S.2/A440-08 Standard, the use of SI (metric) units is the standard, while IP (Imperial) values given in parentheses are for reference purposes only, and are inexact rounded values. Section 5.0 contains testing results converted to IP units for the sake of convenience only. The only exception to using Si values is in the Performance Grade (PG) portion of the product designation.

Note concerning drawings:

The drawings reviewed for the production of this report are stamped and are on file at Air-Ins Inc. The availability of individual drawings will be at the discretion of the client.

**2.0 DESCRIPTION OF THE SPECIMEN TESTED**

Type: Horizontal Sliding, OX of AAMA/WDMA/CSA 101/I.S. 2/A440-08.  
- Number of sashes: (1) operable sash and (1) fixed sash.

Model: S-7500 OX Series Patio Door

Assembly drawings: S-7500 PVC Frame Patio Door OX/XO (TS, OS). (Outside glazing bead welded sashes)

Drawings reviewed: - Part nos.: 701, 703, 710, 723, 5775, 7000, 7002, 7004, 7026,

Performance Evaluation: S-7500 OX Series Sliding Door

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7042, 7523, 7541, 7587, 8842, 8933, 8940, 9597, 9598, 9599,  
9732, 9734, 9790, 9808, 9150 and 9991

- Drawing nos.:
- 701 (Fixed sash support drainage)
- 723 (sill dust cover)
- 7000 (sill drainage)
- 9991 (aluminium clad drainage)
- 2.1.7. glazing
- 1.2.3. Silensia Screen (Extruded Aluminium)

Date(s) of sample reception: 12/05/2013

Date(s) of testing: 12/12/2013 and 12/13/2013

For items marked with \*, please refer to Section 3.0, for detailed alterations

Test specimen installation (test buck):

- Material: Eastern White pine (2" x 8")
- Rough opening clearances: None
- Fastening: # 8 x 2" screws: (20) at sill and head, and (20) each jamb, aligned in two rows, screwed through the PVC frame, into the wood test buck.
- Sealing detail: Sealant between test buck and specimen on exterior and interior perimeters.

Frame:

- Material: Extruded PVC
- Joinery type: Mechanical assembly screwed.
- Sill: Part no. 7000
- Sill cladding: Part no. 9991
- Sill dust cover: Part no. 723
- Fixed sash support: Part no. 701
- Jambs: Part no. 7004
- Head: Part no. 7002

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- Sash rolling rail: Part no. 9790
- Dust plug base: Part no. 703 (head), 710-BLM66 (sill)
- Reinforcement: None
- Weatherstripping: Sill at sash meeting stiles: Dust plug with base, part no. 710-BLM66. Sill at screen: Insect stop part no. PBAB 8445-270 (Schlegel). Interior-side and exterior-side jamb pockets: pile brush T-slot; PB-8420-270 (Schlegel), pile brush PB-8320-187 (Schlegel) and coextruded compression bulb. Head at sash meeting stiles: Dust plug with base, part no. 703. Lower rail (both ends fixed panel): foam block; channelled; 25 mm x 25 mm x 19 mm).
- Sealant: Sealant at assembly of the interior and exterior sill before installation. Sealant between sill/head extremities and jambs. Sealant between the fixed sash support and jamb. Sealant along the entire length of the fixed sash support on the interior side. Sealant around the dust plug holder on the sill adjacent to the fixed sash support at the meeting stiles level.
- Drainage: Drawings no. 7000, 701, 723 and 9991
- Overall dimensions: 2440 mm (96.06") W x 2440 mm (96.06") H

**Sash:**

- Material: Extruded PVC
- Joinery type: Thermally welded mitred aa



**AIR-INS inc.**

Project: AI-04159-D1 (Reissue-56)

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Performance Evaluation: S-7500 OX Series Sliding Door

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The results in this report relate only to the items tested. This report shall not be reproduced except in full, without the written approval of Air-ins Inc.



Screen:

- Quantity: (1) Silensia screens.
- Frame material: Extruded aluminum
- Mesh material: Fiberglass
- Anchoring method: (4) roller
- Auxiliary parts:
  - (4) Sliding devices
  - (1) Recessed plastic handle
  - (1) Pile brush, t-slot retention
- Overall dimensions: 1202 mm (47.32") W x 2355 mm (92.72") H

### **3.0 ALTERATION(S)**

Alteration(s) performed in the laboratory on tested specimen to meet the reported performances:

None

### **4.0 TEST BENCH INFORMATION**

Information regarding the Test Bench and related instrumentation used for testing:

Testing was performed on Air-Ins Inc. test bench identified as TB03-GCC. Latest calibration of this test bench and related equipment dates to January 2014.







**5.2 TEST SPECIMEN AUXILIARY TESTING**

TEST	CLASS SPECIFICATIONS	TEST RESULTS	COMMENT
Welded Corner Test	When loaded to failure, the break shall not extend along the entire weld line. AAMA/WDMA/CSA 101/I.S.2/A440-08 par. 5.3.6.2	For each corner detail (sashtail	



## **6.0 CONCLUSION**

Based on the tests results, the door described in this report meets the requirements of the AAMA/WDMA/CSA 101/I.S. 2/A440-08 & A440S1-09 Standards regarding performance testing (articles 5.0).

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.

The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the referenced specification. The test records from this evaluation will be retained for a minimum of four (4) years from the date of report issuance. This report does not constitute certification of this product, which may only be granted by a