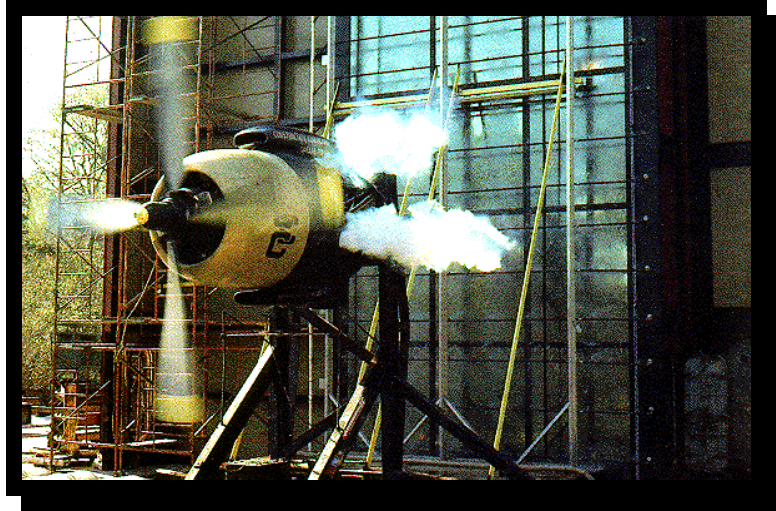




CONSTRUCTION CONSULTING LABORATORY, *INTERNATIONAL*



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**TEST REPORT:  
AAMA/WDMA/CSA 101/I.S.2/A440-08  
INTERNATIONAL WINDOW CORPORATION  
SERIES 8920 E ALUMINUM SLIDING GLASS DOOR  
REPORT CCLI #11-071**

**March 29, 2011**

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Prepared for:

**INTERNATIONAL WINDOW CORPORATION**  
5625 E. Firestone Boulevard  
South Gate, CA 90280

1601 Luna Road  
Carrollton, Texas 75006

**S-UNITED, INC.**  
*A Quality Control Company*

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### **APPENDIX:**

APPENDIX A: INTERNATIONAL WINDOW SERIES 8920 E SLIDING GLASS DOOR  
DRAWINGS



**AAMA/WDMA/CSA 101/I.S.2/A440-08**  
**INTERNATIONAL WINDOW CORPORATION**  
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Refer to mock-up drawings in **Appendix A**. This report is not complete unless these drawings are stamped and initialed by **CCLI** as illustrated below.

Drawing	Part #	Date	Stamped as illustrated
SERIES 8920 E SLIDING GLASS DOOR		11/30/05	
HEAD INTERIOR	50548	5/4/05	
HEAD EXTERIOR	50547	5/04//05	
SILL INTERIOR	50550	5/03/05	
SILL EXTERIOR	50549	5/4/05	
JAMB INTERIOR	50552	5/1/05	
JAMB EXTERIOR	50551	5/2/05	
FIXED INTERLOCK INTERIOR	50558	5/5/05	
FIXED INTERLOCK EXTERIOR	50555	5/4/05	
LEAD STILE INTERIOR	H50554	5/2/05	
LEAD STILE EXTERIOR	50553	5/2/05	
VENT MEETING RAIL INTERIOR	H50556	5/4/05	
VENT MEETING RAIL INTERIOR	H50557	5/04/05	
SASH BOTTOM RAIL INT	50576	9/19/05	
SASH BOTTOM RAIL EXT	50575	9/19/05	
SASH TOP RAIL INTERIOR	50560	5/5/06	
SASH TOP RAIL EXTERIOR	50559	5/5/05	
FIXED STILE INTERIOR	50568	5/3/05	
FIXED STILE EXTERIOR	50567	5/4/05	
THRESHOLD CAP	50571	6/17/05	
SASH VINYL THERMAL BREAK	8220-029	1/23/08	
FRAME VINYL THERMAL BREAK	8220-028	1/22/08	
INTERLOCK VINYL THERMAL BREAK	8920-13	1/18/05	
HEAD THERMAL ISOLATOR	8920-11B	1/18/05	
SILL THERMAL ISOLATOR	8220-022	1/18/05	
JAMB THERMAL ISOLATOR	8220-020	1/18/05	
BOTTOM RAIL ISOLATOR	8920-15	1/18/05	



**AAMA/WDMA/CSA 101/I.S.2/A440-08**  
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**SERIES 8920 E SLIDING GLASS DOOR**  
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**1. PROJECT DATA**

**Project:** Series 8920 E Aluminum Sliding Glass Door

**Date of Testing:** February 18, 2011

**Tested For:** International Window Corporation  
 5625 E. Firestone Boulevard  
 South Gate, CA 90280

**Witnessed By:** (All or Partial Viewing)

Terry Hopgood International Aluminum  
 Jeffrey Crump Construction Consulting Laboratory, *International*

**2. SUMMARY**

Series	Product Type	Test Size	Positive DP	Negative DP
8920 E	Sliding Glass Door	7'-11" x 8'-0"	960 Pa (20 psf)	960 Pa (20 psf)

**3. TEST SPECIMEN**

**PRODUCT TYPE:** Aluminum Sliding Glass Door, **Product Drawings, Appendix A**

**SERIES/MODEL:** Series 8920 E Aluminum Sliding Glass Door

**SPECIFICATION:** AAMA/WDMA/CSA 101/I.S.2/A440-08  
 R-PG20-SD 2413 x 2438 (95 x 96)

**FRAME SIZE:** 2413 x 2438 (7'-11"x 8'-0")

**PANEL SIZE:** 1238 x 2367 (4'-<sup>3</sup>/<sub>4</sub>" x 7'-<sup>9</sup>/<sub>16</sub>" )

**OPERABLE PANEL DAY LIGHT OPENING:** 1210 x 2235 (3'-7<sup>1</sup>/<sub>2</sub>" x 7'-4")

**FIXED PANEL SIZE:** 1238 x 2367 (4'-<sup>3</sup>/<sub>4</sub>" x 7'-<sup>9</sup>/<sub>16</sub>" )

**FIXED DAY LIGHT OPENING:** 1095 x 1003 (3'-7<sup>1</sup>/<sub>2</sub>" x 7'-4")

**CONFIGURATION:** O/X



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**WEATHER-STRIP:** One row of pile weather-strip with integral plastic fin, 5.59 mm (0.220") thickness, located at the frame pocket of head, sill and jambs. Two finger vinyl located at frame head center leg exterior face and frame sill center leg exterior face. One finger vinyl located at fixed interlock interior face with bug strip

**GLASS:** Sealed insulating glass. 2 pcs. 4.76mm ( $\frac{3}{16}$ ") tempered glass, 15.9mm ( $\frac{5}{8}$ ") air space with a 25.4mm (1") overall thickness. Air spacer consist of u-shaped steel.

**GLAZING:** Operable panel and fixed panel members are marine glazed wrap around vinyl channel.

**WEEPS:** 44.45mm ( $1\frac{3}{4}$ ") weep hole with plastic baffle located 31.75mm ( $1\frac{1}{4}$ ") from each end of sill exterior face.

**SEALANT:** Sealant at all frame corners. Attachment screws sealed. Fixed panel jamb stile, top and bottom rails were sealed to the frame from the interior.

**HARDWARE:** Adjustable tandem roller assembly located at each end of operable panel bottom rail. Door handle with mortise lock with mortise casing with prongs located 1016mm (40") from panel bottom. Keeper located at frame jamb attached with two (2) #8 x 88.9mm ( $3\frac{1}{2}$ ") PH SMS AB.

**OTHER FEATURES:** Frame members are thermally broken with thermal break (part #RS1801). Frame members are coped, butted and attached with two (2), #6 x 25.8mm (1") PH Pan head SMA per connection. Sash members and fixed interlock are thermally broken with thermal break (part #RS1802). Operable panel corners coped, butted and attached with one (1), #8 x 76.2mm (3") PH Truss Head AB per connection. Fixed panel corners coped, butted and attached with one (1), #8 x 44.45mm ( $1\frac{3}{4}$ ") pan head screws per connection. Fixed panel set in place with fixed interlock bracket (part #50563) and attached to frame head and sill with two (2) #8 x 9.52mm ( $\frac{3}{8}$ ") hex head screws with bracket attached to fixed panel interlock with two (2), #8 x 76.2mm (3") PH Truss Head AB per connection. All frame members and operable panel bottom rail use vinyl isolators.

**INSTALLATION FEATURES:** Frame members were attached to SPF, nominal 50.8mm x 203.2mm (2" x 8") test buck with #8 x 50.8 (2") dry wall screws, 114mm ( $4\frac{1}{2}$ ") from each end and 406mm (16") on center.



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#### 4. PERFORMANCE RESULTS

<u>No.</u>	<u>Title of Test</u>	<u>Test Method</u>	<u>Measured</u>	<u>Allowed</u>
5.3.1.1	Operating Force Breakaway Close		107N (24.0 lbs) 80N (18.0 lbs)	135N (30 lbs) 90N (20 lbs)
5.3.1.1.3	Latching Devices		18N (4.0 lbs)	100N (22.5 lbs)
5.3.2	Air Infiltration @ 75 Pa (1.60psf)	ASTM E 283-04	1.40 L/s•m <sup>2</sup> (.28 cfm/ft <sup>2</sup> )	1.5 L/s•m <sup>2</sup> (0.30 cfm/ft <sup>2</sup> )
5.3.3	Water Resistance @ 150 Pa (3.00psf) with screen @ 150 Pa (3.00psf) without screen	ASTM E 547-00	No Leakage No Leakage	No Leakage No Leakage
5.3.4.2	Deflections @ Interlock 90 Pa (20.00psf) Positive Negative		Max Center 29mm (1.125") Max Center 30mm (1.1875")	reported reported
5.3.4.3	Uniform Load Structural @ 1440 Pa (30psf) Positive @ 1440 Pa (30psf) Negative -Permanent Set	ASTM E 330-02	No Damage No Damage 1.52mm (.06")	No Damage No Damage 4.57mm (0.180")
5.3.5	Forced Entry Resistance Type A Grade 10	ASTM F 842-04	No Entry	No Entry
5.3.5	Forced Entry Resistance <b>Grade 10</b>	CAWM-300-96	No Entry	No Entry
5.3.6.3	Deglazing Test Top Rail @ 311N (70 lbs) Bottom Rail @ 311N (70 lbs) Left Stile @ 222 N (50 lbs) Right Stile @ 222 N (50 lbs)		3% 5% 3% 2%	100% 100% 100% 100%



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Detailed extrusion and assembly drawings indicating measured wall thickness and corner construction are on file and were compared to the test sample submitted. These records will be retained at **CCLI** for a period of four years.

## 5. DISCLAIMER

The above results were obtained by using the designated test methods indicating compliance with the above specification. This report does not constitute certification of this product, which may only be granted by the program administrator.

**CONSTRUCTION CONSULTING LABORATORY, *INTERNATIONAL***

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JEFFREY CRUMP  
TESTING MANAGER

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WESLEY WILSON  
LABORATORY MANAGER



**AAMA/WDMA/CSA 101/I.S.2/A440-08**  
**INTERNATIONAL WINDOW CORPORATION**  
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**APPENDIX**





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**APPENDIX A**

**PROJECT DRAWINGS**

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**- END OF REPORT -**