



Quality Accuracy Assurance

# Fenestration Testing Laboratory, Inc.

1677 West 31st Place Hialeah, FL 33012 Phone: 305/819-7877 Fax 305/819-7998

Lab. Number 2071  
August 26, 1998  
Report Number 44  
File Number 98-102  
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## OFFICIAL TEST REPORT

<b>MANUFACTURER:</b>	Kinco Limited	<b>DESIGNATION:</b>	HS-C45 - 112 X 63
<b>ADDRESS:</b>	P.O. Box 6398 Jacksonville, Florida 32236	<b>SPECIFICATIONS:</b>	AAMA/NWWDA 101/I.S.2.-97

## DESCRIPTION OF UNIT

**Model Designation:** Series: RW-XHP; Aluminum Horizontal Sliding Window  
**Overall Size:** 9' 4" (112") by 5' 3" (63") high by 1.895" wide  
**Configuration:** XOX  
**No. & Size of Vents:** Two extruded aluminum vents, each 3' 1/8" (36 1/8") by 4' 10 15/16" (58 15/16") high.

## MATERIAL CHARACTERISTICS

**Frame Construction:** Test unit has a flange type frame, butt joints and a white coated finish. Aluminum alloy is 6063-T6. Frame corners were fastened with two No. 8 by 5/8" pan head sheet metal screws. Fixed meeting rails at frame head were fastened with two No. 8 by 2" flat head sheet metal screws and at frame sill with two No. 8 by 1" flat head sheet metal screws. Unit tested with a 2.600" high overall interior sill flange. Size of frame members are as follows: frame head 1.738" by 1.895" by 1.807" by 1.967"; frame sill 3.100" by 1.895" by 0.812" by 1.967"; frame jambs 0.974" by 1.895" by 0.874"; fixed meeting rails 0.750" by 1.674" by 1.750" by 1.502". Frame members are solid extrusions with a typical wall thickness of 0.062".

**Vent Construction:** Vents have butt joints and a white coated finish. Aluminum alloy is 6063-T6. Vent corners were fastened with two No. 8 by 5/8" pan head sheet metal screws. Size of extrusions are as follows: vent top rail (solid extrusions) 0.922" by 0.750" by 0.422"; bottom rails (solid extrusions) 1.457" by 0.750" by 0.957"; vent jamb rails 0.790" by 0.750" by 1.290"; vent meeting rails 0.790" by 1.375" by 1.290" by 1.188". Vent rails are hollow extrusions, except where indicated. Vent extrusions have a typical wall thickness of 0.062". Vent tested with a heavy duty vent meeting rail.

### Glazing:

**Material:** 3/16" annealed glass.

**Method:** Unit tested is exterior glazed with 7/16" glazing penetration using a clear colored adhesive bedding compound, Schnee Morehead 5555, and an aluminum rolled glazing bead.

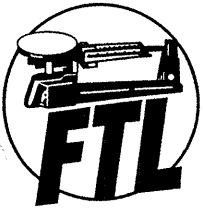
**Daylight Opening:** Clear opening of each vent, 33 1/2" by 56 1/2" high; fixed light, 36" by 57 1/2" high.

### Weatherstripping:

Quantity	Description	Location
Double row	Pile with integral plastic fin, Schlegel .180 x .270	at each vent bottom rail
Double row	Pile with integral plastic fin, Schlegel .310 x .270	at each vent top rail
Single row	Pile with integral plastic fin, Schlegel .130 x .270	at each fixed meeting rail
Single row	Pile with integral plastic fin, Schlegel .310 x .270	at each frame jamb

### Hardware:

Two	surface mount zinc cast cam lock, Allen Stevens #7538	one at midspan of each vent meeting rail
Four	Brass wheels in plastic housing, Saunders Engineering	one at each end of each vent bottom rail



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**MATERIAL CHARACTERISTICS**

**Weepholes:**

Quantity	Description	Location
Six	½" by 3/16" weep hole with plastic flap valve	at exterior sill flange, 5", 18" and 31" from each end

**Muntins:** None

**Reinforcement:** None

**Sealants:** Installation screws, frame and vent corners were sealed with a clear colored sealant, Schnee Morehead 5504.

**Pads:** None

**Screen:** Water resistance test performed with and without fiberglass screen. Size of screen, 35 3/4" by 60" high.

**Additional Description:** One 2 7/16" by 1 3/8" by 1/16" aluminum plate in frame head above each fixed meeting rail. Unit tested with 1.245" by 1.000" aluminum (alloy 6063-T6) installation clips below frame sill, fastened to test buck with No. 10 by 1 ½" pan head installation screws and to interior sill flange with No. 8 by ½" pan head sheet metal screws, 7" from each end and on 12" centers.

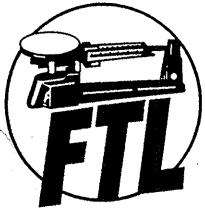
**Unit Installation:** Test unit installed in a 2 X 12 wood test buck using a 2 X 4 pressure treated buck strip. Frame installed with a single row of No. 10 by 1 ½" pan head sheet metal screws in frame head and frame sill installation clips and No. 10 by 1 ½" flat head wood screws in frame jambs. Approximate spacing of installation screws are as follows: frame head, 7" from each end and on 12" centers; sill installation clips, 2 3/4" from each end and on 15 1/4" centers; frame jambs, 5" from each end and on 18" centers.

**Product Markings:** None

**OFFICIAL TEST RESULTS**

Paragraph Number	Title of Test	Measured	Allowed
2.1.2	Air Infiltration Test: (ASTM E283-96) at 1.57 psf	0.23 cfm/sq.ft. (1.28 cmh)	Passed 0.3 (1.67) maximum
<i>Note:</i> The tested specimen meets or exceeds the performance levels specified in specification reference for air infiltration.			
2.1.3	Water Resistance Test: (ASTM E547-96/E331-96) with and without screen, no leakage at	8.25 (395.0 pa)	Passed 4.50 (215) minimum
2.1.4.2	Uniform Structural Load Test: (ASTM E330-96)		Passed
	Exterior Load	67.5 psf (3232 pa)	45.0 (2155) minimum
	Interior Load	67.5 psf (3232 pa)	45.0 (2155) minimum
	Permanent Deformation	0.089 inches (4.26 mm)	0.236 (6.00) maximum
2.1.8	Forced Entry Resistance Test AAMA 1303.2-1976, Paragraph 3.1.1 Test A through 3.1.5 Test G	No entry	Passed None Allowed
2.2.2.5.1	Starting Force: Operating Force:	5 pounds (22 n) 6 pounds (27 n)	25 (111) maximum 25 (111) maximum
2.2.2.5.2	Deglazing Test: (ASTM E987-88)		Passed
	No disengagement at:		
	Vertical Rails	70 pounds (311)	70 (311) minimum
	Horizontal Rails	50 pounds (222)	50 (222) minimum
	Percent Deglazement	7 percent	99 maximum

*[Handwritten Signature]*  
 8/27/98



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**OFFICIAL TEST RESULTS**

Paragraph Number	Title of Test	Measured	Allowed
<b>SECTION 4, OPTIONAL PERFORMANCE CLASS:</b>			
4.3	Water Resistance Test: (ASTM E547-96/E331-96) with and without screen, no leakage at	8.25 psf (395.0 pa)	Passed 5.25 (251) minimum
4.4.2	Uniform Structural Load Test: (ASTM E330-96)		Passed
	Exterior Load	67.5 psf (3232 pa)	52.5 (2514) minimum
	Interior Load	67.5 psf (3232 pa)	52.5 (2514) minimum
	Permanent Deformation	0.089 inches (4.26 mm)	0.236 (6.00) maximum

*Note:* At conclusion of above tests, there was no apparent damage to unit, glass or fasteners.

**Test Completed - June 1, 1998**

**Remarks:** This test report does not constitute certification of this product, but only that the above test results were obtained using the above referenced test methods, the performance requirements (paragraphs as listed) of the above referenced specifications.

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 test sample will be retained at the test laboratory. A copy of this report has been forwarded to the Validator.

*Note:* Test specimens were covered with a 1.5 mil plastic sheeting to seal from air leakage when load tests were performed, however this had no effect on the above tests results.

Witnessed by:  
 Mr. Jay Wyrick  
 Mr. Gilbert Diamond, P. E.

**FENESTRATION TESTING LABORATORY, INC.**

Laboratory Technicians:  
 Roberto Robleto  
 Roque Zavala  
 Jose Vargas

**Manny Sanchez**  
 President

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