



Quality Accuracy Assurance

Fenestration Testing Laboratory, Inc.

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Lab. Number 2124
September 8, 1998
Report Number 47
File Number 98-102
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OFFICIAL TEST REPORT

MANUFACTURER:	Kinco Limited	DESIGNATION:	HS-C35 - 127 X 61
ADDRESS:	P.O. Box 6398 Jacksonville, Florida 32236	SPECIFICATIONS:	AAMA/NWWDA 101/I.S.2.-97

DESCRIPTION OF UNIT

Model Designation: Series: RW-4/5 HP; Aluminum Horizontal Sliding Window
Overall Size: 10' 7 1/8" (127 1/8") by 5' 1" (61") high by 1.895" wide
Configuration: XOX
No. & Size of Vents: Two extruded aluminum vents, each 3' 1/16" (36 1/16") by 4' 9" (57") 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 rail was fastened at frame head with two No. 8 by 2" flat head sheet metal screws and to 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 1.863" by 1.895" by 1.807" by 1.967"; frame sill 1.967" by 0.812" by 1.895" by 2.600"; frame jambs 0.974" by 1.895" by 0.874"; fixed meeting rails (hollow extrusions) 0.752" by 1.319" by 0.924" by 1.750". Frame members are solid extrusions, except where indicated. Extrusions have a typical wall thickness of 0.062".

Vent Construction: Vents have butt joints and a white and bronze 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 0.922" by 0.750" by 0.422"; bottom rails 1.457" by 0.750" by 0.957"; vent jamb rails (hollow extrusions) 0.790" by 0.750" by 1.290"; vent meeting rails (hollow extrusions) 0.790" by 1.375" by 1.290" by 1.188". Vent rails are solid extrusions, except where indicated. Vent extrusions have a typical wall thickness of 0.062". Vents tested have heavy duty meeting rails.

Glazing:

Material: 3/16" annealed glass.

Method: Unit tested is exterior glazed with 5/16" 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 54 1/2" high; fixed light, 51" by 57 1/2" high.

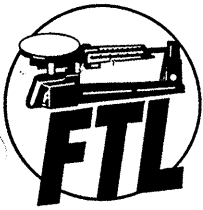
Weatherstripping:

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 .165" weep hole each with a 2 ½" long plastic flap valve	at intermediate sill flange, 5", 18 ½" and 32 ½" from each end
Two	3/16" diameter drain hole	at intermediate sill flange, 39" from each end

Muntins: None

Reinforcement: None

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

Pads: None. One 1 3/4" long strip of pile with integral plastic fin weatherstrip in frame sill below each fixed meeting rail.

Screen: Water resistance test performed with and without fiberglass screen. Size of screen, 35 5/8" by 58 1/4" high.

Additional Description: One 2 ½" by 1 ½" by 0.045" aluminum plate in frame head above each fixed meeting rail.

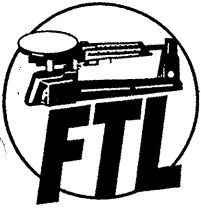
Unit Installation: Test unit installed in a 2 X 12 wood test buck using a 1 X 4 buck strip. Frame installed with a single row of No. 8 by 1 1/4" pan head sheet metal screws in frame head and frame sill; No. 8 by 1 1/4" flat head sheet metal screws in frame jambs. Location of installation screws are as follows: frame head and frame sill from left end, 7", 35 ½", 63 ½", 91 3/4", 120 1/4"; frame jambs from the bottom, 4 ½", 30 ½", 56 ½".

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	0.13 cfm/sq.ft. (0.72 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	8.50 (407 pa)	Passed 4.50 (215) minimum
2.1.4.2	Uniform Structural Load Test: (ASTM E330-96)		Passed
	Exterior Load	52.5 psf (2514 pa)	45.0 (2155) minimum
	Permanent Deformation	0.086 inches (2.19 mm)	0.228 (5.80) maximum
	Interior Load	52.5 psf (2514 pa)	45.0 (2155) minimum
	Permanent Deformation	0.204 inches (5.19 mm)	0.228 (5.80) 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:	11 pounds (49 n) 10 pounds (44 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	5 percent	99 maximum

John R. Deane
 9/19/98



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OFFICIAL TEST RESULTS

Paragraph Number	Title of Test	Measured	Allowed
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SECTION 4, OPTIONAL PERFORMANCE CLASS:

4.3	Water Resistance Test: (ASTM E547-96/E331-96) with and without screen, no leakage at	8.50 psf (407 pa)	Passed 5.25 (251) minimum
4.4.2	Uniform Structural Load Test: (ASTM E330-96)		Passed
	Exterior Load	52.5 psf (2514 pa)	52.5 (2514) minimum
	Permanent Deformation	0.086 inches (2.19 mm)	0.228 (5.80) maximum
	Interior Load	52.5 psf (2514 pa)	52.5 (2514) minimum
	Permanent Deformation	0.204 inches (5.19 mm)	0.228 (5.80) maximum

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

Test Began - August 17, 1998

Test Completed - September 3, 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. As per manufacturer, unit complies with section 3, material and component requirements.

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.
Mr. Dan Duet

FENESTRATION TESTING LABORATORY, INC.

Manny Sanchez
President

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Jose Vargas
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