



Quality Accuracy Assurance

# Fenestration Testing Laboratory, Inc.

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Lab. Number 2176  
October 8, 1998  
Report Number 65  
File Number 98-102  
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## OFFICIAL TEST REPORT

<b>MANUFACTURER:</b>	Kinco Limited	<b>DESIGNATION:</b>	F-C55 - 112 x 57
<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: M-40/50; Aluminum Circle Top Fixed Window  
**Overall Size:** 9' 4" (112") by 4' 8 9/16" (56 9/16") high by 2.000" deep.  
**Configuration:** O

## MATERIAL CHARACTERISTICS

**Frame Construction:** Test unit has a flange type frame, butt joints and a white coated finish. Aluminum alloy is 6063-T5. Frame corners were fastened with two No. 8 by 5/8" pan head sheet metal screws. Size of frame members are as follows: circle top 1.125" by 2.000" by 0.625"; frame sill 0.555" by 2.130" by 0.930". Frame members are solid extrusions with a typical wall thickness of 0.055".

### Glazing:

**Material:** 1/4" annealed glass.

**Method:** Unit is exterior glazed with 1/2" glazing penetration using a double sided glazing tape and an aluminum extruded glazing bead with foam between the bead and glass. Glazing bead fastened to frame with a single row of No. 8 by 1 1/4" pan head sheet metal screws, location of fasteners are as follows: circle top from bottom left, 2 1/4", 23 1/4", 42 1/4", 61 1/4", 73 1/4", 83 3/4", 94 1/4", 106 1/4", 124 1/2", 143", 164 1/2"; frame sill from the left, 5", 17 1/4", 29 1/2", 42", 54 3/4", 67 1/4", 79 3/4", 92 1/4", 104 1/2".

**Daylight Opening:** Clear opening, 109" by 56 9/16" high, approximately 43.6 square feet.

**Weatherstripping:** None

**Hardware:** None

**Weepholes:** None

**Reinforcement:** None

**Sealants:** Frame corners were sealed with a clear colored sealant. Installation screws were sealed with a white colored sealant.

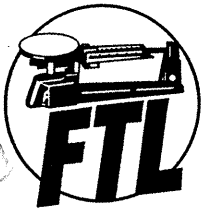
**Pads:** None

**Screen:** Not applicable

**Unit Installation:** Test unit installed in a 2 X 12 wood test buck using a 1 X 4 pressure treated buck strip. Frame installed with a single row of No. 10 by 2" pan head sheet metal screws at perimeter of frame. Location of installation screw spacing are as follows: circle top from bottom left, 3", 25", 45", 63 1/4", 76 1/4", 87 1/4", 111 3/4", 130 1/4", 151 1/4", 172 1/4"; frame sill from the left, 6", 18 1/2", 31", 43 1/2", 56", 68 1/2", 81 1/4", 93 1/2", 106".

**Product markings:** None

*Gilbert Raymond*  
10/13/98



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### OFFICIAL TEST RESULTS

Paragraph Number	Title of Test	Measured	Allowed
2.1.2	Air Infiltration Test: (ASTM E283-96) at 1.57 psf	0.05 cfm/sq.ft. (0.28 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) no leakage at	20.00 (958 pa)	Passed 4.50 (220) minimum
2.1.4.2	Uniform Structural Load Test: (ASTM E330-96) Exterior Load Interior Load	82.5 psf (3950 pa) 82.5 psf (3950 pa)	Passed 45.0 (2160) minimum 45.0 (2160) minimum
2.1.8	Forced Entry Resistance Test: (ASTM F588-97) Manipulation Test	No Entry	Passed

### SECTION 4, OPTIONAL PERFORMANCE CLASS:

4.3.	Water Resistance Test: (ASTM E547-96/E331-96) no leakage at	20.00 psf (958 pa)	Passed 5.25 (252) minimum
4.4.2.	Uniform Structural Load Test: (ASTM E330-96) Positive Load Negative Load	82.5 psf (3950 pa) 82.5 psf (3950 pa)	Passed 52.5 (2520) minimum 52.5 (2520) minimum

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

**Test Began - October 6, 1998**

**Test Completed - October 6, 1998**

**Remarks:** This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and 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.

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

**FENESTRATION TESTING LABORATORY, INC.**

**Manny Sanchez**  
President

Laboratory Technicians:  
Roberto Robleto  
Roque Zavala

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