

NATIONAL CERTIFIED TESTING LABORATORIES

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STRUCTURAL PERFORMANCE TEST REPORT

Report No: NCTL-210-2701-1

Test Date: 10/02/01

Report Date: 10/19/01

Client: Kinco, Ltd.
5245 Old King Rd.
Jacksonville, FL 32205

Test Specimen: Kinco Ltd. Series "TW-4/1" Single Hung Aluminum Prime Window
(H-LC50) (Downsized)(Reference NCTL 210-2716-1).

Test Specification: AAMA/NWWDA 101/I.S.2-97, "Voluntary Specifications for Aluminum,
Vinyl (PVC), and Wood Windows and Glass Doors."

TEST SPECIMEN DESCRIPTION

General: The test specimen was a one-over-one tilt single hung aluminum prime window measuring 53-1/8" wide by 78" high overall. Both sash measured 49-5/8" wide by 39-1/4" high. The fixed lite was glazed to the frame members, providing a viewing area of 47-11/16" wide by 35-3/4" high. Frame and sash members were not thermally broken. The active sash was removable via a single coiled spring balance with locking tilt shoe located in each interior jamb track. One rigid vinyl lock was located at 3" from each end of the active interior bottom rail. One (1) plastic tilt latch with thumb actuator was located at each end of the interior meeting rail. One (1) die cast pivot bar was fastened with one (1) screw at each end of the bottom rail. The frame was of double screw butt-type corner construction and active sash was of single screw butt-type corner construction. The fixed meeting rail was fastened to the jambs at mid-span with one (1) screw.

Glazing: The active sash was exterior glazed and the fixed lite was interior glazed using 3/16" thick clear annealed glass using a silicone bedding and rigid vinyl glazing bead.

Weatherseals: One (1) strip of center fin polypile weatherstrip (0.290" high) was located at the interior face of the top rail and both stiles. One (1) strip of centerfin polypile weatherstrip (0.290" high) was located at both stiles. One (1) strip of vinyl weatherstrip was located at the bottom rail.

Weeps: One (1) weep notch measuring 1-1/2" x 3/8" was located at 4" and 22-1/4" from each end of the sill face. One (1) weep notch measuring 1-1/2" x 3/8" was located at each end and at mid-span of the interior screen retainer sill leg.

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Interior & Exterior Surface Finish: White painted aluminum.

Sealant: The frame and active sash corners were sealed with a silicone sealant.

TEST RESULTS

<u>Par. No.</u>	<u>Title of Test & Method</u>	<u>Measured</u>	<u>Allowed</u>
2.1.4.2 **	Uniform Load Structural - ASTM E330		
	75.0 psf Exterior	0.001"	0.196"
	75.0 psf Interior	0.003"	0.196"

** No glass breakage or permanent damage causing the unit to be inoperable


TEST COMPLETED 10/02/01

The tested specimen meets (or exceeds) the performance levels specified in Table 2.1 of AAMA/NWWDA 101/I.S.2-97 for air infiltration. The listed results were secured by using the designated test methods and indicate compliance with the performance requirements of the referenced specification paragraphs for the H-LC50 product designation.

Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four (4) years. The results obtained apply only to the specimen tested. No conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen may be drawn from this test. This report does not constitute certification of the product which may only be granted by a certification program validator.

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DAN CONYERS
Laboratory Manager


12/3/01