

PROFESSIONALS IN THE SCIENCE OF TESTING

Reinforcement: One (1) U-shaped galvanized steel reinforcing channel measuring 3/4" x 3/4" x 1/16" thick filled the length of the panel adaptor. One (1) U-shaped galvanized steel reinforcing channel measuring 3/4" x 3/4" x 1/16" thick filled the length of each interior stile.

Installation: The main frame was fastened to the wood test bench using forty-eight (48) (#8 x 1-1/2") FHS. (See fastener diagram.)

General: The sample tested was a three (3) panel type OXX aluminum sliding glass door measuring 15-1/2" wide x 80-1/8" high overall. The active panel measured 50-1/2" wide by 71-1/8" high; the fixed panel measured 50-1/8" wide by 71-1/8" high. Frame and panel members were not thermally broken. A plastic spacer/Guide was used at each panel head/stile corner. The fixed panel was secured to the jamb with two (2) 3" long aluminum angle retainers each fastened to the jamb stile with two (2) (#8 x 3/4") pan head screws. One (1) claw type door lock assembly was located at 40" from the bottom of each active panel lock stile each with two (2) screws. One (1) adjustable metal roller assembly was used at each end of the active bottom rails. The frame was of double screw coped corner construction. Panel corners were of single screw at bottom rail and double screw at the top rail. The interior vertical sill leg employed an extruded aluminum 1-1/4" high extension; an overall height of 2.031. One (1) extruded aluminum panel retainer was fastened at 2" from each of the active panel bottom rail. One (1) extruded aluminum female panel adaptor was fastened to the fixed panel but stile with five (5) (#8 x 1-1/2") screws. One extruded aluminum screen adaptor was fastened to the butt stile using five (5) (#8 x 1-1/2") screws.

TEST SPECIMEN DESCRIPTION

Revision Note: Sill leg extension was revised from 1-1/8" to 1-1/4"

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

Test Specimen: MI Home Products Products Series "420" Type OXX Aluminum Sliding Glass Door (SGD-C95)(Single Glazed)(Steel Reinforced)(with and without sill riser).

Client: MI Home Products, Inc.
650 West Market Street
Graft, PA 17030-0370

Report No: NCTL-210-2065-1
Test Date: 08-21-00
Report Date: 09-25-00
Expiration Date: 09-25-04
Revision Date: 01/31/02

STRUCTURAL PERFORMANCE TEST REPORT

1464 GEMINI BOULEVARD • ORLANDO, FLORIDA 32837
PHONE (407) 240-1355 • FAX (407) 240-5862
WWW.NCTL.COM

NATIONAL CERTIFIED TESTING LABORATORIES





6.2% (0.00317) <100%
 2.0% (0.00103) <100%
 3.4% (0.00167) <100%
 3.4% (0.00167) <100%
 10.2% (0.0517) <100%
 7.8% (0.0397) <100%
 6.0% (0.0300) <100%
 5.4% (0.0277) <100%

Right Active Panel
 Meeting Rail (50 lb)
 Bottom Rail (50 lb)
 Left Sile (70 lb)
 Right Sile (70 lb)
 Deglazing - ASTM E987
 Center Active Panel
 Top Rail (50 lb)
 Bottom Rail (50 lb)
 Left Sile (70 lb)
 Right Sile (70 lb)

2.2.1.6.2

Test Results	Measured	Allowed
Right Active Panel	18 lb	30 lb
Center Active Panel	20 lb	30 lb
Operating Force	5 lb	30 lb
To open	18 lb	30 lb
In Motion	5 lb	30 lb

2.2.1.6.1

TEST RESULTS

Sealant: Prime and panel bottom rail corners were sealed with a small-joint sealant.
 Insect Screens: Two (2) insect screens, one (1) center insect screen measuring 6'-0" x 1'-4" wide by 7'-11" high. Both were of coped corner construction. The screen employed fiberglass mesh cloth with a hollow vinyl spine. One (1) roller assembly was located at each end of the bottom rails. One (1) glass type lock assembly.

Interior & Exterior Surface Finish: Non-painted aluminum

Weeper: One (1) weep notch measuring 1-1/2" x leg height was located at each end of the interior sill roller leg, exterior sill roller leg and screen sill roller leg.
 Weatherstripping: Double strips of centerfin weatherstrip (0.270" high) were located at each jamb, stile and lock stile. A double strip of centerfin weatherstrip (0.180" high) was located at each interior stile. A double strip of centerfin weatherstrip (0.250" high) was located at each panel top rail. A double strip of side fin weatherstrip (0.430" high) was located at each panel bottom rail. An adhesive back polyurethane dual plug measuring 1-3/16" x 15/16" x 0.420" was located on the head and sill at each end of the vertical stile exterior track.

Glazing: All panels were channel glazed using 3/16" thick clear tempered glass with a flexible vinyl glazing bead.

NCITL-210-2065-1

MI Home Products



Note: In addition, MI Home Products Series "430" and "440" also received on SGP-C35 rating being identical in panel construction and interior sill leg heights.

TEST COMPLETED 06/21/00

* Test performed with and without screen

Per. No.	Title of Test & Method	Measured	Allowed
4.3	Water Resistance - ASTM E547 & E331 5.0 gph/ft ² WTP = 6.00 psf	No Entry	No Entry
4.4.2	Uniform Load Structural - ASTM E330 52.5 psf Exterior 52.5 psf Interior	0.379"	0.381"

Note: At this point in testing, an additional sill riser was attached to the existing main sill's interior vertical leg with the following results being obtained:

Per. No.	Title of Test & Method	Measured	Allowed
4.3	Water Resistance - ASTM E547 & E331 5.0 gph/ft ² WTP = 6.25 psf	No Entry	No Entry

OPTIONAL PERFORMANCE

Per. No.	Title of Test & Method	Measured	Allowed
2.1.4.2	Uniform Load Structural - ASTM E330 45.0 psf Exterior 45.0 psf Interior	0.246"	0.281"
2.1.3	Water Resistance - ASTM E547 5.0 gph/ft ² WTP = 4.50 psf	No entry	No entry
2.1.2	Air Infiltration 1.57 psf(25mph)	Passed	0.30cfm/ft ²

TEST RESULTS (Continued)

MI Home Products



Division Manager

MICHAEL E. LANE

The tested specimen meets (or exceeds) the performance levels specified in Table 2.1 of AAMA/ NWWDA 101/1.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 SCD-C35 product designation.

Detailed drawings were available for laboratory records and compared 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.

NCTL-910-2065-1

MI Home Products