

March 6, 2002

Subject: Elk Product Approval Information

All Prestique® and Capstone® products manufactured in Tuscaloosa, AL are certified under the Miami - Dade County Building Code Office (BCCO). These products also meet the requirements for the Florida Building Code since they are MD approved. The following test protocols must be passed by each of the products in order for MD product certification:

ASTM D3462

PA 100 (110 mph uplift and wind driven rain resistance)
PA 107 (Modified ASTM D3161 - 110 mph wind uplift resistance)

The nailing patterns that were used during the PA 100 and PA 107 wind test protocols for the Prestique and Capstone products are listed below. Also listed below are the Miami – Dade Notice of Acceptance Numbers (NOA).

Raised Profile, Prestique High Definition, Prestique 25, or Prestique 30 -

PA 100 = 4 nails

PA 107 = 5 nails

MD NOA# = 01-1226.04

Prestique I 35 or Prestique I* -

PA 100 = 4 nails

PA 107 = 5 nails

MD NOA# = 01-1226.05

Prestique Plus or Prestique Gallery Collection* -

PA 100 = 4 nails

PA 107 = 4 nails

MD NOA# = 01-1226.03

Capstone*

PA 100 = 4 Nails

PA 107 = 4 Nails

MD NOA# = 01-0523.01

* As per the Elk Limited Warranty, six nails are required for the Elk high wind warranty.

If there are any questions please contact:

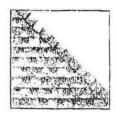
Mike Reed - Technical Manager

(205) 342-0287

or Daniel DeJamette - QA Engineer

(205) 342-0298

Roofing Products Specifications - Toscalogsa: AL



PRESTIGUE* HIGH DEFINITION*



RAISED PROFILE"

1: High Odinhian

Product size 13%'x 39%'
Exposure 5%'
Preces/Bundle 16
Bundles/Square 4/90 Exq ft.
Squares/Patiet 11

50-year limited warranty penetrinon protectic coverage to: singles are application labor fine the initial 5 years, plus an opinion to transferability, protectic coverage for application labor and string is for balance of limited warranty period. Syear limited wind warranty. Product size 135"x 305" Expressive 5%" Preces/Bundle 22 Bundles/Square 3/100 sq.ft Squares/Pallet 16

1 4 - 11 TH

30-year limited warranty period non-nimited coverage for shift gives east application tabor for the Initial 5 years, plus an option for warrier ability: promited coverage for application tabor and shingles for halunce or limited warranty por lost 5-year limited wind warranty.

1 tigh Definition

Product size 13%'x 395"
Exposure 55'
Pieces:Bundin 16
Bundlos/Square 4/99.5 sq.it.
Squares/Pallet 14

40 year (imited warming ported): non-protected exverage for shringles and application labor for the initial 5 years, plus an upition for transferability! "promoted coverage to application to bot and shingles for balance of limited warranty period; Sylesi limited warranty."

HIP AND RIDGE SHINGLES

Size: 12"x 12"
Exposure: 63:"
Picces/Bundle: 45
Coverage: 4 Bundles > 100 tinger feet

High Definition

Product size 12%'x 30%' |
Exposure 5%'' |
Picces/Bundle 22 |
Bundles/Square 3/100 sq ft. 16

30-year limited warrancy period: non-provided coverage for shingles with application secon for the initial 5 years, plus an option for annalisability!: promoted coverage for application footh and savingles for balance of limited warrancy period; 5-year limited whom warrancy. SZ Sundled/Patter 18 Parter/Frack 936 Brandles/Frack 19 Pieces/Brandle 1 Bundle - 120.33 linear feet

Kil

Available Colors: Antique State, Weatheredwood, Shokewood, Seblewood, Hickory, Burswood**, Forest Green, Wedgewood**, Birntwood**, Sandalwood-Callory Collection: Balsam Forest , Weathered Sage*, Sternin Sunset ...

All Prostique, Raised Profile and Seal-A-Ridge recting products contain Ele Windfliard sealant WindGuard activates with the sun's heat, bonding shally les into a wind and wealther resistant crown that resists blow-oils and leaks.

A CONTRACTOR OF THE RESIDENCE OF THE PARTY O

Check for availability with built-in StainGuard" clearment to inhibit the discoloration of roofing granuses caused by the growth of certain types of algae. Not available in Sablewood.

All Providure and Ruised Profile Shingles meet UL: Wind Resistant (UL \$97) and Cleas "A" Fire Retings (UL 790); and ASTM Specifications D 3016, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prostique and Raised Profile shangles meet the latest Metro Dade building code requirements.

*See actual limited warranty for conditions and limitations.

**Check for product availability.

Score: Work includes harnishing all labor, motorist, und equipment necessary to compete instateoon of figure! shrights second entire. Coor shall be (game of colle) thip and ringe type to be Elk Seal-A-Ridge with format

1. 124.55

All exposed metal surfaces (flexiting, verts, etc.) to be painted with matching Elk roof accessory point.

Piemaanos or Roof Direc Roof duck to be dry, wellseasaned 1"s 6" (25.4mm s. 1.52.4mm) boards, exteriorgrate rijswood (exposure 1 rated shouthing) of least 3/8" (6.752mm) block conforming to the specifications of the American Plywood Association: 7/16" (1.10.74mu) oriented strandboard; or highboard Most fire netardart prywood cocks are NOT exproved substrates for Elesingles Consult Lik Floid Service in application sous-firstness over other decks and other stopes. Materials: Underlayment for standard conference, 4" per froit ("DLS/004.8mm) or greatest apply thor-perforated No. 15 or 30 asphalts-attained let underlayment. For low stopes (1" per loot. (10) 8/204.8mm) in amminishment 2" per foot (10) 8/204.8mm) in 30 8/204.8mm or 15 8/204.8

For areas where algoe is a problem, shingles shall be (pagg) with Stanistiand treatment, as manufactured by the ris Tracalusus plans, tilly and ridge type to be Seaf-A-Ridge with formula FLX-wills SainGuard treatment.

Complete approximation instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingers upon the correct installation as shown an the instructions, these instruction size the minimum required to meet file application requirements in some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must no followed Under no circumstances will Elik accept application requirements less than times contained in its application instructions.

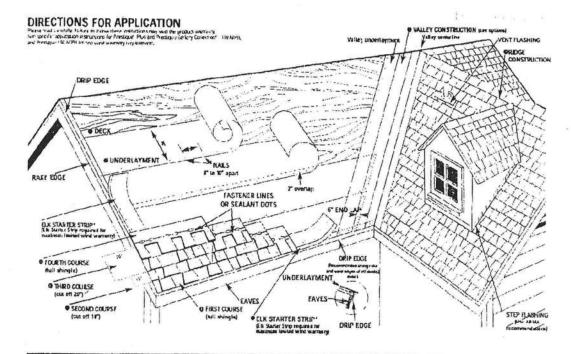
For specifications in CSI format, call 300:354 SPEC (7732) or e-mail specific@enkcorp.com.

SOUTHEAST & ATLANTIC OFFICE: 800.945.5551

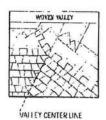
CORPORATE HEADQUAKTERS: 800.354.7732

PLANT LUCATION: 800.945.5545

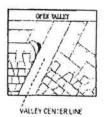




IN U.S. LEY CONSTRUCTION OPTION (California Control Children a Classed are also encentated in Multi-ray complete ARMA has by instantation details, see ARMA Residented Assessing Morant







DIRECTIONS FOR APPLICATION

DIRECTIONS FOR APPLICATION.
These registration instructions are the mitimum required to meet filt in production, requirements. This finitize to follow these instructions may vised the product were required. In over the building codes may require additional naphication techniques or nethods beyond use instudients. In these codes, this less leads wast to for fowest thinder no circumstances all the except opinious institution of the code opinious institutions of the code opinious institutions of the code opinious requirements delicited which then those price in Strategian should not be jaramed signify together. All antics should be properly venitabled. Note: It is not inconsist to remove take on hands of bringle.

O DECK PREPARATION

Riculfuscus smould be dry, well-sectioned 11 / 6 beards or exerting grade paywood minimum. Me finch and conform to the specifications of the American Plywood Association or Mel unched Standboard, or Mai Chipbolard.

SIGNER O'SAMINDERED, OF THE CITYLOGIC PASSAGE AS A REPORT OF THE CONTROL OF THE CITY OF TH

for low slope (2/12 up to 4/12), use a continuous layer of expirate for low slope (2/12 up to 4/12), use a continuous layer of expirate form the parts of continuous layer of expirate for the same form the same fo

Conside the till Held Service Department for application specifications over other decks and other slopes.

O STARTER SHINGLE COURSE

TO STANLER SHENGEL COURSE.

WEST ALEX STARTES STRIP OR A STRIP SHINGEL INVERTED WITH THE HEADLE PAPULOUT THE EVEN ELDC. With at least IT writed from the and of the first shings, soon at one core cody custion; say I be cave "17" to VV. Fasen I" from the lower cody and I "rion code allow. Shingles may be applied with a course allowants of 45" or "be root."

O FIRST COURSE

Start at rule and continue conne with full shingles had finch with the starter course.

O SECOND COURSE

Start at the rake with the shingle having 10" visiting off and centinue across roof with full shingles.

A THIRD COURSE

Start at the fake with the shingle having 20" primated off and continue across roof with full shingles.

O FOURTH COURSE

Start at the take and continue with full shingles across roof

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for secured billing and fourth courses the not rect stringles strongs up the lost.

OVALLET CONSTRUCTION

Open woven and desert or valley, is acceptable when applied
by Asphat Reofing Manufacturing Astroiation (ARMA)
recommended procedures for maid obley, use & wido ventical
redoringment price to applying 10° most finance places or
with nating. No rails are to be within 6° of valley beside.

O RIDGE CONSTRUCTION

for ridge construction use Class* A* Seal-A-kidge with formula IUX* (See ridge package on invaligation instructions.)

FASTENERS

While nating it the preferred method for Electhington. Electhing is welleccept hatening method incoming to the following indunctions. Always, rull for staple through the Lacemen little or on products without heatener littles, rull or staple humaners and in fine with realized documents.

sealard dole.

A MILLS Corrosive resistant, 39° head minimum 11-happy rooting notes the recommends 1-14° for new roots and 11-16° or root roots. In cases where you are applying display 11-16° or root in exposed overhang for new roots oilly 30° ring shonk cultius to expose doverhang for new roots oilly 30° ring shonk cultius the exposed overhang for new roots oilly 30° ring shonk cultius the period of the root of the special roots of the roots

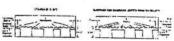
MANSARO APPLICATIONS

MANASAD APPLICATION INTO Corner, Issuening is critical to the performance of the reof. For slopes exceeding (0° (or 20/12) use 30° (steeners per shingle. Locate Rastners's in the lastners was 1° from each side edge with the remaining last fasterers equally spaced during the leight of the doubt blickness (laminated oras, Only (asycaning methods according to the above institution are according to the above institutions are according to the above institutions.

UMITED WAND WARRANTY

For a United Warranty, all President and Related Finition
Whiteles must be applied with a properly place of leaseners, or in
the close of commend applications, is properly placed fasterers
for simple.

the case of customer applications, a property praced rankerers for a Limited Wind Marrierty up to 100 MPH for President Callery Collection or Procision Place of 0 MPH for Provinger, sharples must be applied with 6 property placed NALS perstruigt. Symbolicis American Wind Symbolism Medical American Straight Symbolism Medical Medical



HELP STOP BLOW-OFFS AND CALL-BACKS

Arthurum of laur Instenses and to disverse and the UCUSEE ThickNESS Invalenced area of the springle. Nails or studies must be precised large, and fit reagh, the Trails are studies and incomparity and the second services and incomparity advocational and in second services and in the way account without touchers' lines, nail or stoppe between and in shingle argument.



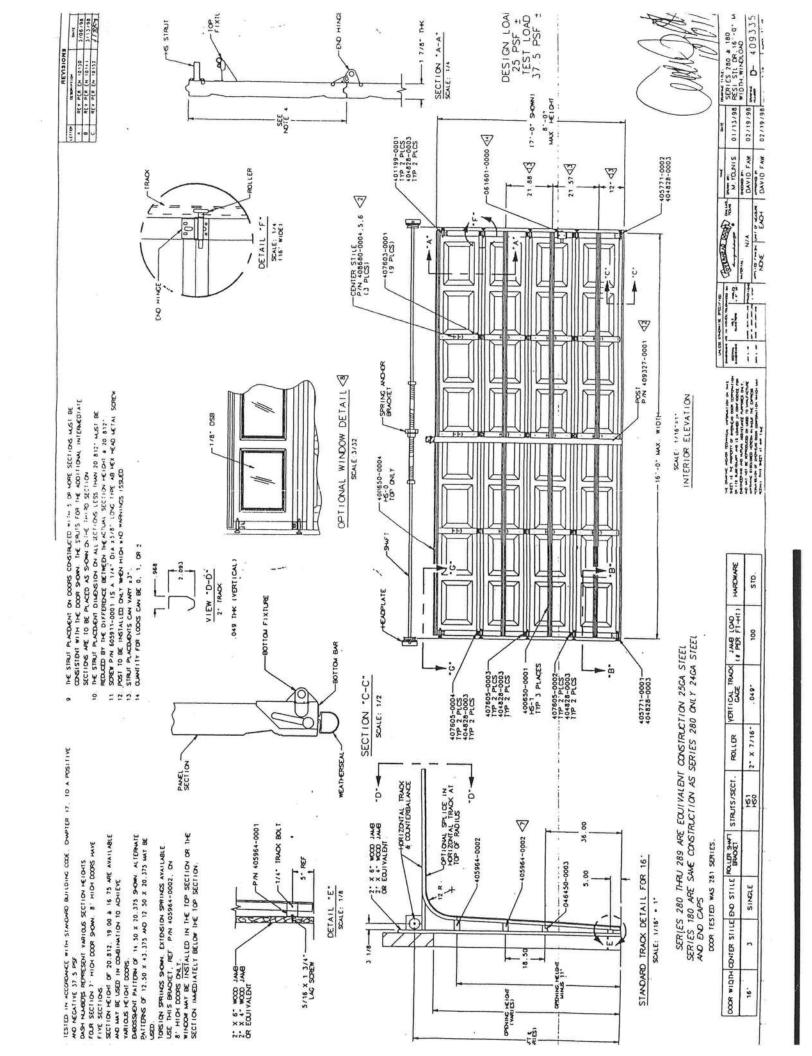
Refer to local codes which in some gross, may require specific application but returns beyond done fit has specified. All Prescripts, and Palsard Profice sangles have a UL. What Resistance Reling when applied in accordance with unest restrictions using nails or viables on retroots as well as new temperatures.

CAUTION TO WHOLESALER: Caruleas and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonatory cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct similar until applied. DO NOT DOUBLE STACK. Systematically rotate all stock to that the material that has been stored the longest will be the first to be moved out.

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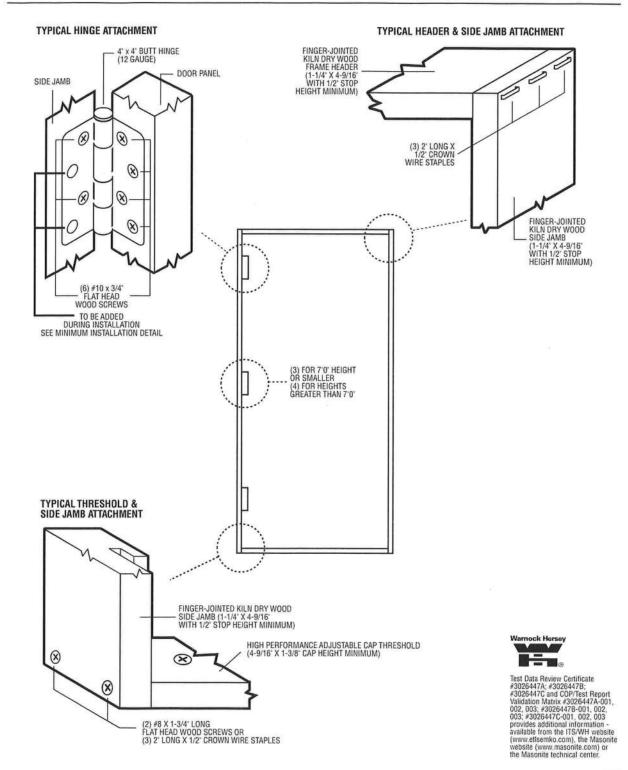
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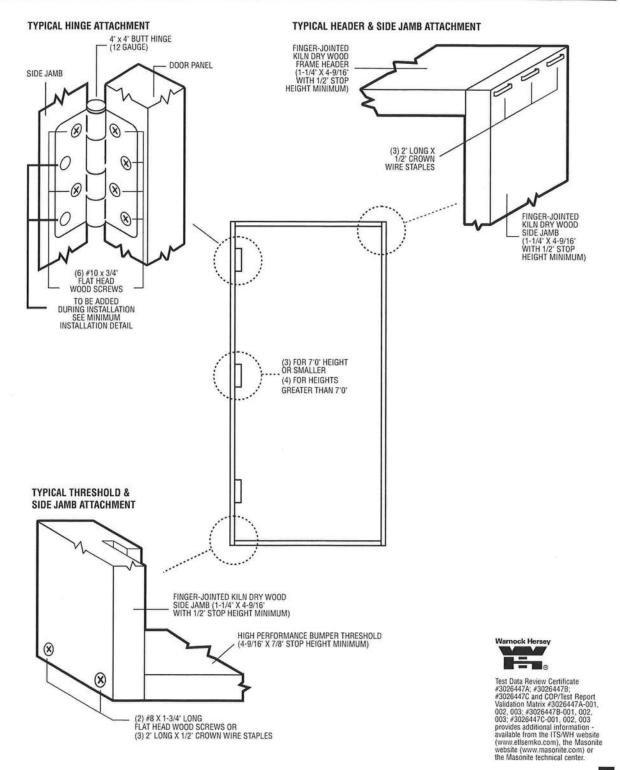
INSWING UNIT WITH SINGLE DOOR





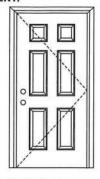


OUTSWING UNITS WITH SINGLE DOOR





APPROVED ARRANGEMENT:



Test Data Review

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.ellsemko.com), the Masonite vebsite (www.masonite.com) or the Masonite technical center.

Note:

Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Single Door Maximum unit size = 3'0" x 6'8"

Design Pressure

+66.0/-66.0 limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0001-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MA0001-02.

APPROVED DOOR STYLES:























Eyebrow 5-panel

Eyebrow 5-panel with scroll



CERTIFIED TEST REPORTS:

NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH MIAMI-DADE BCCO PA201, PA202 & PA203

> COMPANY NAME CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer Kurt Balthazor, P.E. – License Number 56533 Warnock Hersey

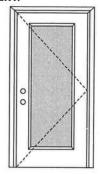
Test Data Review Certificate #3026447A and CDP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.asonite.com) or the Masonite technical center.

2





APPROVED ARRANGEMENT:



Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".



Test Data Review Certificate #3026447A and CDP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/MH website (www.etlsemko.com), the Masonite vebsite (www.asonite.com) or the Masonite technical center.

Single Door num unit size = 3'0" x 6'8"

Design Pressure +40.5/-40.5

Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0011-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MA0001-02.

APPROVED DOOR STYLES: 1/4 GLASS:





133, 135 Series





680 Series



822 Series

1/2 GLASS:





106, 160 Series*







12 R/L, 23 R/L, 24 R/L



107 Series



108 Series



*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll





APPROVED DOOR STYLES: 3/4 GLASS:







FULL GLASS:











CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH MIAMI-DADE BCCO PA202

> COMPANY NAME CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer Kurt Balthazor, P.E. – License Number 56533 Warnock Hersey

Test Data Review Certificate #3026447A and CDP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

2

Johnson Entry Systems

PREMDOR Collection
Premium Quality Doors

Masonite International Corporation

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 450/650/850 TYPE: H-C30 54 x 90; H-C40 52 x 72*

1	Summary of Results	
Title of Test	Test Specimen #1	Test Specimen #2
AAMA Rating	H-C30 54 x 90	H-C40 52 x 72*
Uniform Load Deflection Test Pressure	35.0 psf	47.0 psf
Operating Force	20 lb max.	N/A
Air Infiltration	0.27 cfm/ft ²	N/A
Water Resistance Test Pressure	5.25 psf	6.0 psf
Uniform Structural Load Test Pressure	45.0 psf	70.5 paf
Deglazing	Passed	N/A
Forced Entry Resistance	Grade 10	N/A

Reference should be made to ATI Report No. 01-37589.02 for complete test specimen description and data.

allen M. Renny.



TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC. P.O. Box 370 650 West Market Street Gratz, Pennsylvania 17030-0370

Report No: 01-37589.02

Test Date: 06/15/00

Thru: 06/29/00

Report Date:

06/06/02

Expiration Date:

06/29/04

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness performance testing on two Series/Model 450/650/850, aluminum single hung windows at their facility in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: H-C30 54 x 90; Test Specimen #2: H-C40 52 x 72*.

General Note: An asterisk (*) next to the performance grade indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

Test Specimen Description

Series/Model: 450/650/850

Type: Aluminum Single Hung Window

Test Specimen #1: Gateway Performance Specimen H-C30 54 x 90 rating

Overall Size: 4' 6-1/2" wide by 7' 6-1/2" high

Active Sash Size: 4' 4" wide by 3' 9-3/4" high

Fixed Daylight Opening Size: 4' 1-1/2" wide by 3' 6-1/2" high

Screen Size: 4' 2-1/4" wide by 3' 8-1/2" high

130 Derry Court York, PA 17402-9405 phone: 717.764.7700 fax: 717.764.4129 www.archtest.com

allen M. Resur



Test Specimen Description: (Continued)

Test Specimen #2: H-C40 52 x 72*

Overall Size: 4' 4-1/4" wide by 6' 0" high

Active Sash Size: 4' 2" wide by 3' 0-1/2" high

Fixed Daylight Opening Size: 3' 11-1/2" wide by 2' 9-1/2" high

Screen Size: 4'0" wide by 2'11" high

The following descriptions apply to all specimens.

Finish: All aluminum was painted.

Glazing Details: The lites utilized 5/8" thick sealed insulating glass units fabricated from two sheets of 3/32" clear annealed glass and an intercept™ spacer system. The sash was channel glazed with a flexible gasket. The fixed lite was interior glazed onto single-sided adhesive foam tape and secured with extruded PVC glazing beads.

Weatherstripping:

Description	Quantity	Location
0.210" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Stiles
0.300" diameter by 0.187" backed foam filled vinyl bulb gasket	1 Row	Bottom rail
0.400" high by 1/2" square polypile dust plug	4	One on each sash corner

Frame Construction: Series/Model 450 frame was constructed of thermally broken extruded aluminum with coped, butted and sealed corners. The fixed meeting rail was constructed of an extruded aluminum member with coped, butted and sealed ends fastened with two #8 x 1/4" screws. Series/Model 650 frame was constructed of extruded aluminum. Series/Model 850 frame was constructed of thermally broken extruded aluminum members.

Sash Construction: The Series/Model 450 sash members were constructed of thermally broken extruded aluminum members with coped, butted and sealed corners fastened with one #8 x 1-1/4" screw. Series/Model 650 sash was constructed of extruded aluminum. Series/Model 850 sash was constructed of extruded aluminum.

Screen Construction: The screen was constructed of rolled-aluminum members with plastic keyed corners. The fiberglass mesh was secured with a flexible spline.

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Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Plastic snap latch	1	Midspan of bottom rail
Block and tackle balance system	2	One per jamb
Plastic tilt latch	2	One on each end of sash meeting rail
Metal pivot bar	2	One on each end of bottom rail

Drainage: Sloped sill

Reinforcement: No reinforcement.

Installation: The test unit was installed into the nominal 2" x 8" Spruce-Pine-Fir #2 wood test buck utilizing the nailing fin secured with 1" long galvanized roofing nails, 6" from each corner and every 18" on center. The nailing fin was also bedded in polyurethane. The exterior perimeter was blind stopped with wood members and secured with #8 x 3" screws every 24" on center.

Test Results:

The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	Results	Allowed	
Test Specimen #1: Gateway Performance Specimen H-C30 54 x 90				
2.2.1.6.1	Operating Force	20 lbs	45 lbs max	
	Air Infiltration (ASTM E 283) @ 1.57 psf (25 mph)	0.27 cfm/ft ²	0.30 cfm/ft ² max.	

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.

	Water Resistance (ASTM E (with and without screen) WTP = 4.5 psf	547)	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail) (Loads were held for 33 seconds)			
	@ 35.0 psf (positive) @ 35.0 psf (negative)	•	0.27" 0.73"*	0.30" hax.

^{*} Exceeds L/175 for deflection but meets all other test requirements.

allen M. Runer



Test Results:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen	#1: Gateway Performance Specimen	n H-C30 54 x 90 (Con	tinued)
2.1.4.2	Uniform Load Structural (ASTM E (Measurements reported were taken (Loads were held for 10 seconds) @ 45.0 psf (positive) @ 45.0 psf (negative)		rail) 0.21" max 0.21" max
2.2.1.6.2	Deglazing Test (ASTM E 987-88) In operating direction at 70 lbs		
	Meeting rail Bottom rail	0.06"/12% 0.06"/12%	0.50"/100% 0.50"/100%
	In remaining direction at 50 lbs		
	Left stile Right stile	0.06"/12% 0.06"/12%	0.50"/100% 0.50"/100%
2.1.8	Forced Entry Resistance (ASTM F	588-97)	
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 thru A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

allen n. Renew



Test Results:

Paragraph

Title of Test - Test Method

Results

Allowed

Test Specimen #1: Gateway Performance Specimen H-C30 54 x 90 (Continued)

Optional Performance

4.3

Water Resistance (ASTM E 547)

(with and without screen)

WTP = 5.25 psf

No leakage

No leakage

Test Specimen #2: H-C40 52 x 72*

Optional Performance

4.3

Water Resistance (ASTM E 547 and ASTM E 331)

(with and without screen)

WTP = 6.0 psf

No leakage

No leakage

Uniform Load Deflection (ASTM E 330)

(Measurements reported were taken on the fixed meeting rail)

(Loads were held for 33 seconds)

@ 47.0 psf (positive)

0.04"

0.30" max

@ 47.0 psf (negative)

0.03"

0.30" max

Uniform Load Structural (ASTM E 330)

(Measurements reported were taken on the fixed meeting rail)

(Loads were held for 10 seconds)

@ 70.5 psf (positive)

0.07"

0.21" max.

@ 70.5 psf (negative)

0.04"

0.21" max.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC

hA ffress

Mark A. Hess Technician

MAH:baw 01-37589.02 Allen N. Reeves, P.E.

Director - Engineering Services

24 JUNE ZOOZ



DOCUMENT CONTROL ADDENDUM #01-37589.00

Current Issue Date: 06/06/02

Report No.: 01-37589.01

Requested by: Scott Gill, MI Home Products, Inc.

Purpose: AAMA/NWWDA 101/I.S.2-97 testing on Series/Model 450, aluminum single

hung window.

Issued Date: 09/11/00

Comments: Certification copy to John Smith at Associated Laboratories, Inc.

Report No.: 01-37589.02

Requested by: William Emley, MI Home Products, Inc. Purpose: Revised Report No. 01-37589.01.

Issued Date: 06/06/02

Comments: Added Series/Model 650/850. Florida P.E. seal required on report

Certification copy to John Smith at Associated Laboratories, Inc.