Columbia County Building P	ermit Application	Revised 9-23-
For Office Use Only Application # Ole 10 - 98 Date R	Received 10/31/06 By F Permit #	25185
Application Approved by - Zoning Official Date	0). 11.06 Plans Examiner OK STH	Date //-1-06
Flood Zone Development Permit Zonin		
Comments		
O'NEAL CONTRACTING INC	(386)7	52_7578
Applicants Name O'NEAL CONTRACTING, INC. Address P.O. BOX 3505, LAKE CITY, FL 32056	Phone	
Owners Name G.W. HUNTER, INC. 911 Address 1414 U.S. HWY 90 WEST, LAKE CITY, FL	32055 Phone (386)753	2-5890
Contractors Name O'NEAL CONTRACTING, INC.	Phone(386)753	2-7578
Address P.O. BOX 3505, LAKE CITY, FL 32056		
Fee Simple Owner Name & Address G.W. HUNTER, INC.	P.O. BOX 958, LAKE CITY, FL 320	056
Bonding Co. Name & Address N/A		
Architect/Engineer Name & Address NICHOLAS R. GEIST	LER 1758 NW BROWN RD. LAKE CITY	, FL 32055
Mortgage Lenders Name & Address N/A		
Circle the correct power company - FL Power & Light Circle	ay Elec Suwannee Valley Elec. 7	Progressive Energ
Property ID Number 31-35-17-05958-000	Estimated Cost of Construction <u></u>	6,000
Subdivision Name		nit Phase
Driving Directions U.S. 90 WEST ON LEFT PAST FLORIDA	A HIGHWAY PATROL STATION.	
		·
Type of Construction MASONRY Lenguation of Comm		
Total Acreage Lot Size Do you need a - <u>Cu</u>		
Actual Distance of Structure from Property Lines - Front	Side Side	Rear
Total Building Height $\underline{15}$ Number of Stories $\underline{1}$	_ Heated Floor AreaRoc	of Pifch
	THE THE PROPERTY OF THE PROPER	
Application is hereby made to obtain a permit to do work and installation has commenced prior to the issuance of a permit	installations as indicated. I certify that	t no work or
all laws regulating construction in this jurisdiction.	and that an work be performed to mee	t tile standards o
OWNERS AFFIDAVIT: I hereby certify that all the foregoing int	formation is accurate and all work will	be done in
compliance with all applicable laws and regulating construction	•	
WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU II	NTEND TO OBTAIN FINANCING, COMS	IN YOU PAYING
LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE	E OF COMMENCEMENT.	,021 WITH 1 0614
al semi		
Owner Builder or Agent (Including Contractor)	Sontractor Signature	
STATE OF FLORIDA	Contractors License Number CR	C057550
COUNTY OF COLUMBIA	Competency Card NumberNOTARY STAMP/SEAL	
Sworn to (or affirmed) and subscribed before me	SAME C	indy Edge ommission # DD30837
this 31st day of October 2006.	Undy Edge & E	onimission # 0030637 kpires July 20, 2008 kt Trey Fein - Insurance, Inc. 600 -605-
Personally known or Produced Identification	Notary Signature	ч ну т вис-тошјапев, Ind., 900- 965-

@ CAM112M01 S CamaUSA Appraisal System 11/01/2006 9:34 Legal Description Maintenance Year T Property Sel 2007 R 31-3S-17-05958-000 SUWANNEE SWIFTY #255 HUNTER G W INC	75000 375000 106673 37343 519016	lumbia Land AG Bldg Xfea TOTAL	Count 001 000 002 006
1 COMM SW COR OF NE1/4 OF SW1/4, RUN E 251.6 FT TO W R 3 RD, NE ALONG R/W 209.77 FT, N 50 DEG W 468.85 FT FO 5 CONT N 50 DEG W 250 FT TO A PT ON SE'LY R/W US-90, R 7 ALONG R/W 200 FT, SE 250 FT, SW 200 FT TO POB. 9 ORB 428-151,52, 540-681, 674-636-650, 844-1277 11 13 15 17 19 21 23 25 27 Mnt 12/14/2 F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24=More	R POB, UN NE	4 6 8 10 12 14 16 18 20 22 24 26 28	

Project Information for:

L215251

Builder:

ONEAL ROOFING

Date:

Building Code:

10/24/2006

Lot:

N/A

Start Number:

1107

Subdivision:

1414 W US HWY 90

SEI Ref:

L215251

County or City: Truss Page Count: **COLUMBIA COUNTY** 10

Truss Design Load Information (UNO)

Gravity

Wind

Design Program: MiTek

Roof (psf):

42

Wind Standard:

ASCE 7-02

Floor (psf):

FBC2004

55

Wind Speed (mph):

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)

ONEAL, JOHN WINSTON CBC057750

Address: PO BOX 2166

LAKE CITY, FLORIDA 32056

117

Company:

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987

Structural Engineering and Inspections, Inc. EB 9196

Address

16105 N. Florida Ave, Ste B, Lutz, FL 33549

Phone: 813-849-5769

Notes:

- 1. Truss Design Engineer is responsible for the individual trusses as components only.
- 2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
- 3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
- Trusses designed for veritcal loads only, unless noted otherwise.
- 5. Where hangers are shown, Carried Member hanger capacity per Simpson C-2006 (SYP/Full Nailing Value) as an individual component. Building Designer shall verify the suitablity and use of Carrying Member hanger capacity.

			!	1	1	1	1
#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg.#	Seal Date
1	CJ1	1024061107	10/24/2006				
2	CJ1A	1024061108	10/24/2006				
3	CJ3	1024061109	10/24/2006				1
4	CJ3A	1024061110	10/24/2006				-
5	CJ5	1024061111	10/24/2006				
6	EJ7	1024061112	10/24/2006				
7	HJ9	1024061113	10/24/2006				
8	HJ9A	1024061114	10/24/2006				
9	T01	1024061115	10/24/2006		T		
10	T02	1024061116	10/24/2006				
							
					 		
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Online Help

Licensee Details

Licensee Information

Name:

O'NEAL, JOHN WINSTON (Primary Name) O'NEAL CONTRACTING INC (DBA Name)

Main Address: **PO BOX 2166**

LAKE CITY Florida 32056

County: **COLUMBIA**

License Mailing:

LicenseLocation:

818 HICKORY LANE LAKE CITY FL 32025

COLUMBIA

County:

License Information

License Type:

Certified Building Contractor

Rank:

Cert Building CBC057550

License Number: Status:

Current, Active

Licensure Date:

02/22/1996

Expires:

08/31/2006

Special Qualifications Qualification Effective

Bldg Code Core Course

Credit

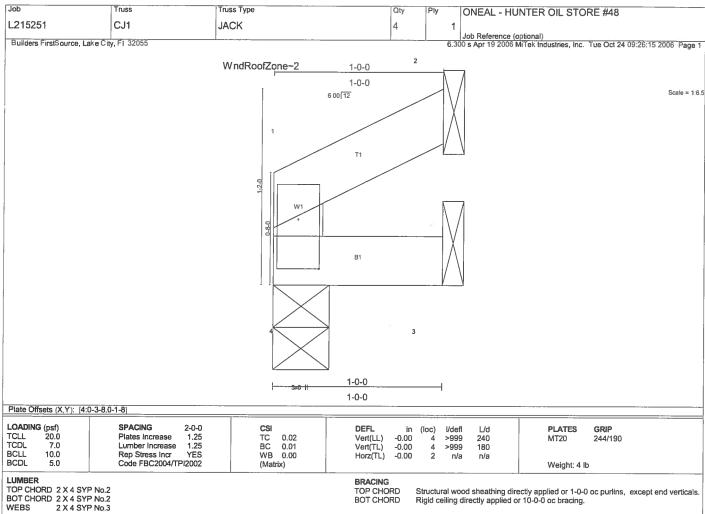
Qualified Business

License Required

02/20/2004

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REACTIONS (lb/size) 4=35/0-4-0, 3=13/Mechanical, 2=22/Mechanical Max Horz 4=29(load case 5)
Max Uplift3=-6(load case 5), 2=-25(load case 5)

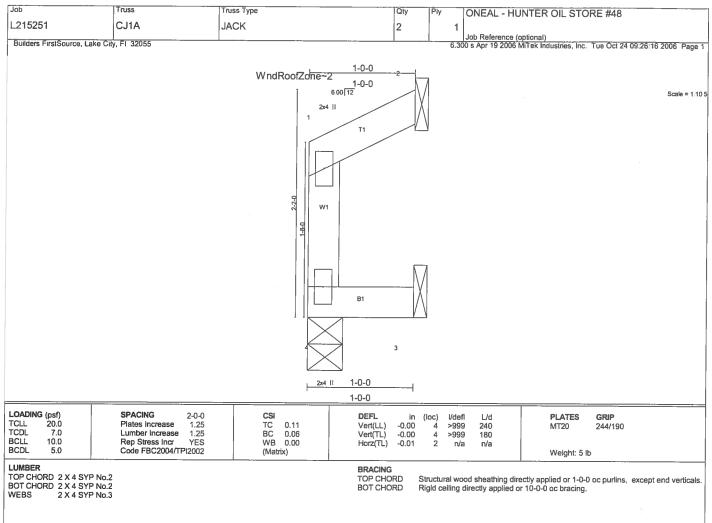
FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-4=-23/7, 1-2=-14/8 BOT CHORD 3-4=0/0

JOINT STRESS INDEX

1 = 0.00 and 4 = 0.06

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3 and 25 lb uplift at joint 2.



REACTIONS (lb/size) 4=35/0-4-0, 3=13/Mechanical, 2=22/Mechanical Max Horz 4=53(load case 5) Max Uplift4=-11(load case 3), 3=-33(load case 5), 2=-46(load case 5) Max Grav 4=53(load case 5), 3=13(load case 1), 2=22(load case 1)

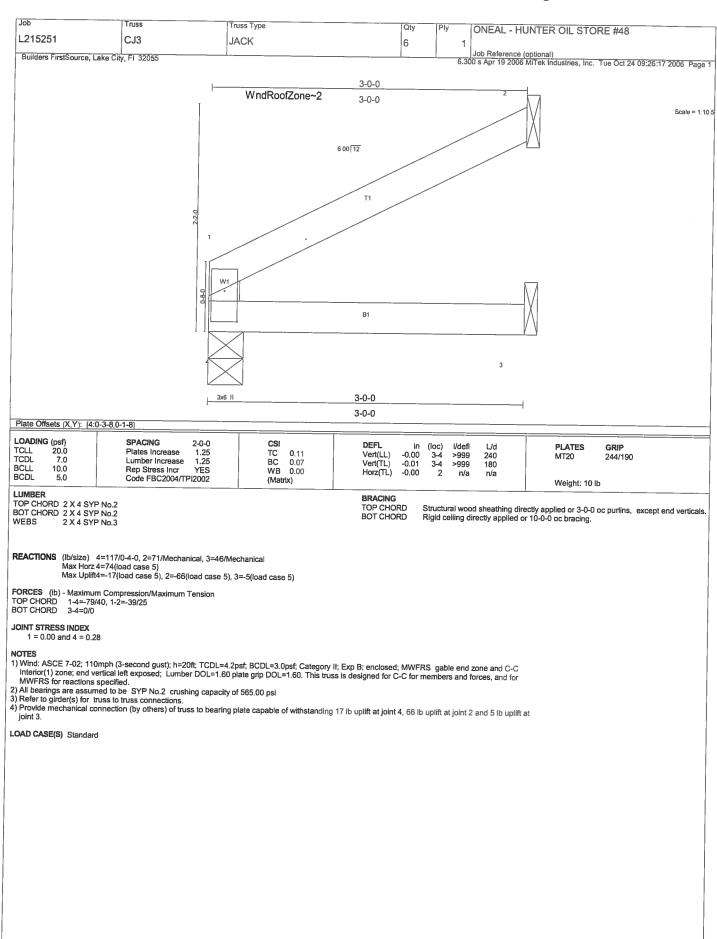
FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-4=-25/5, 1-2=-26/8 BOT CHORD 3-4=0/0

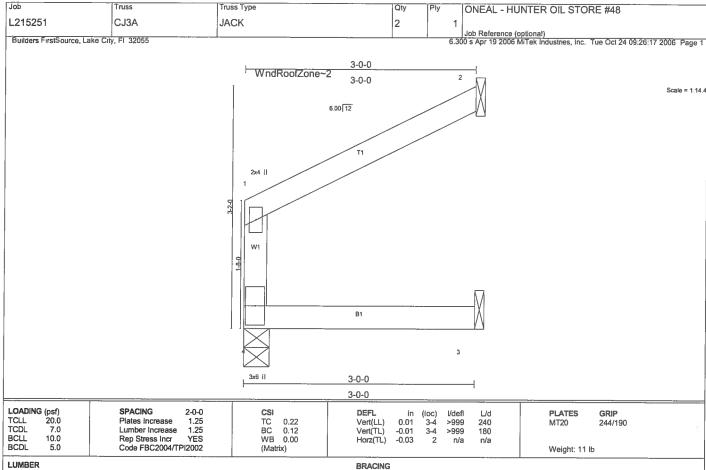
JOINT STRESS INDEX

1 = 0.22 and 4 = 0.35

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

MWFRS for reactions specimed.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 4, 33 lb uplift at joint 3 and 46 lb uplift at





TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 WEBS 2 X 4 SYP No.3

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=117/0-4-0, 2=73/Mechanical, 3=45/Mechanical Max Horz 4=98(load case 5)
Max Uplift2=-83(load case 5), 3=-19(load case 5)

FORCES (ib) - Maximum Compression/Maximum Tension TOP CHORD 1-4--78/23, 1-2--46/26 BOT CHORD 3-4=0/0

JOINT STRESS INDEX

1 = 0.51 and 4 = 0.24

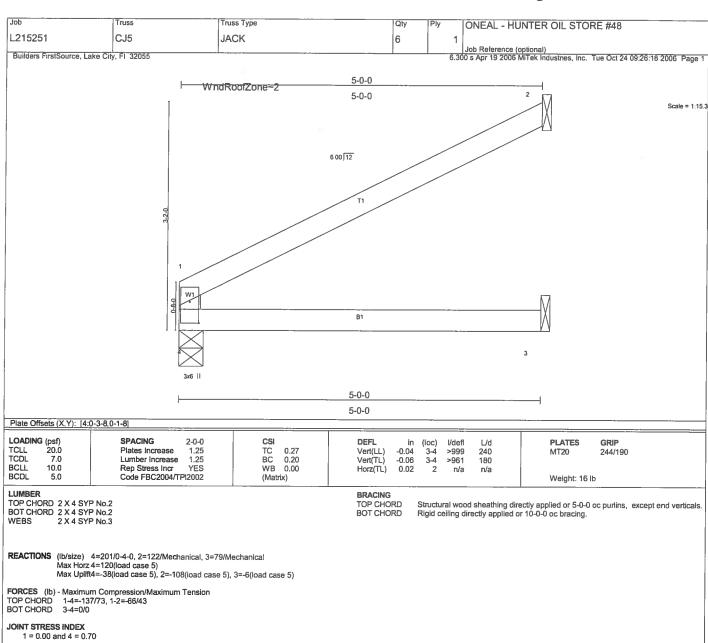
NOTES

- I) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

 3) Refer to girder(s) for truss to truss connections.

 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 2 and 19 lb uplift at joint 3.

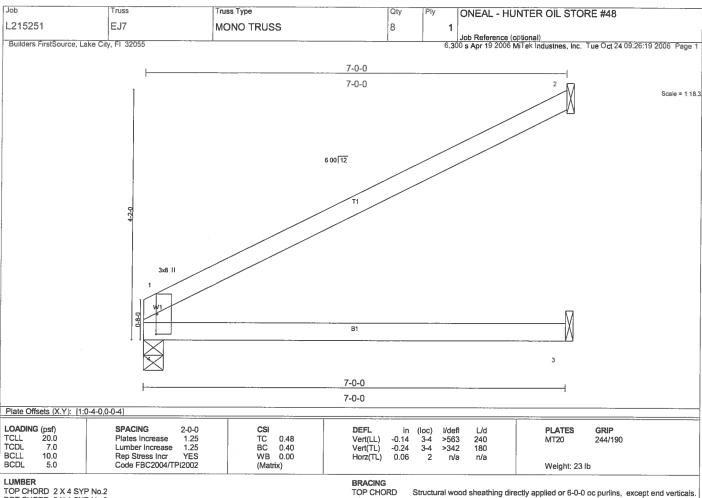


NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 4, 108 lb uplift at joint 2 and 6 lb uplift at joint 3.



TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 WEBS 2 X 6 SYP No.1D

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purins, except end verticals Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=169/Mechanical, 4=282/0-4-0, 3=112/Mechanical Max Horz 4=166(load case 5)

Max Uplift2=-147(load case 5), 4=-56(load case 5), 3=-9(load case 5)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-91/60, 1-4=-193/106 BOT CHORD 3-4=0/0

JOINT STRESS INDEX

1 = 0.83 and 4 = 0.00

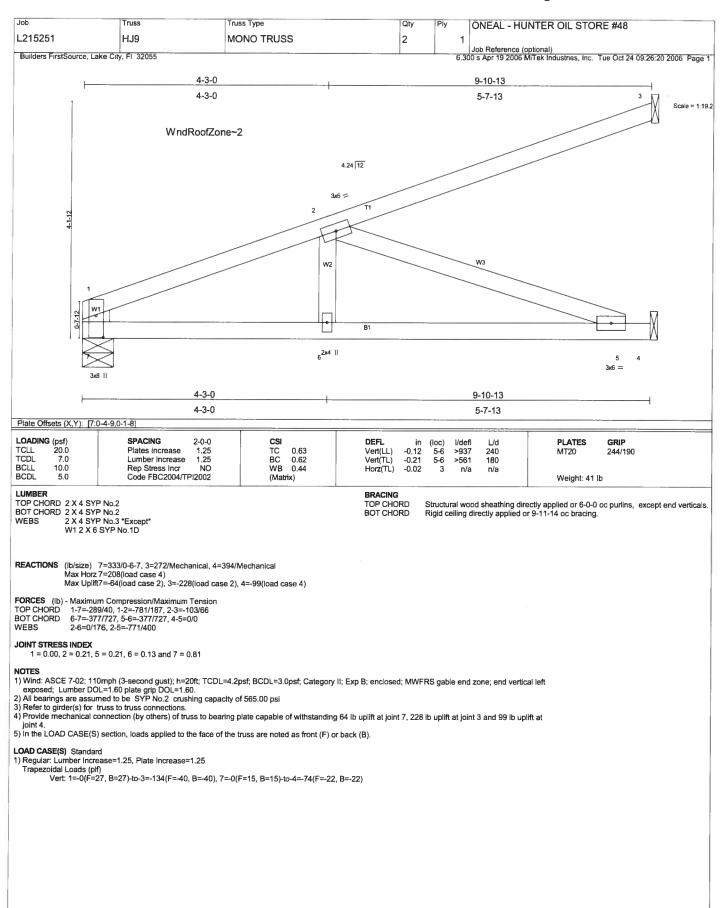
- NOTES

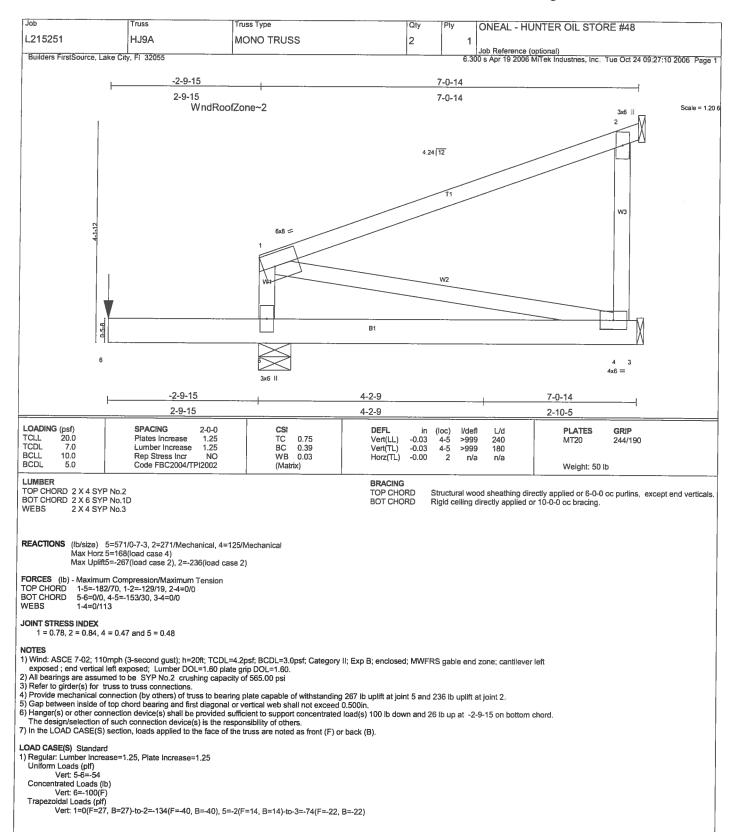
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

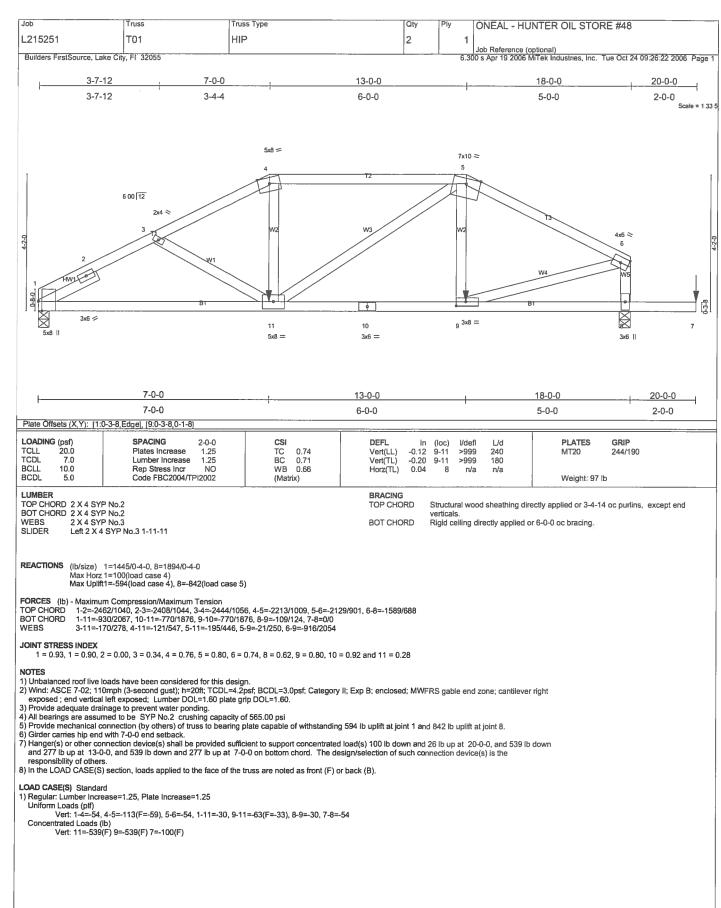
 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

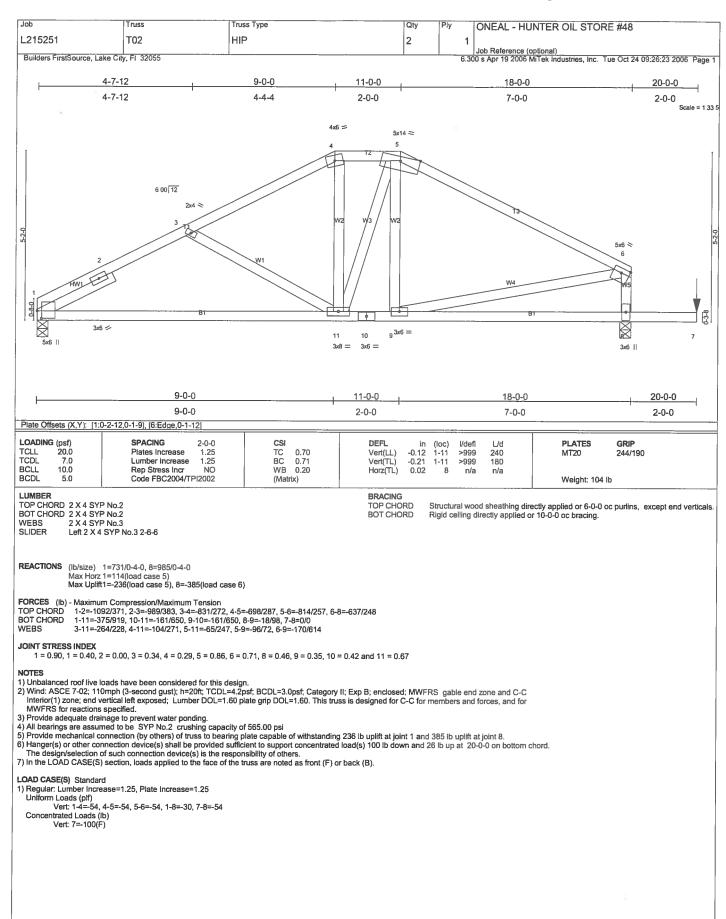
- 3) Refer to girder(s) for truss to truss connections.

 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 2, 56 lb uplift at joint 4 and 9 lb uplift at







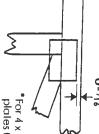


Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless x, y Dimensions are in II-in-sixleenths. Apply plates to both sides of truss and securely seat. offsets are indicated



*For 4×2 orientation, locale plates $0^{-1}h_b^{\alpha}$ from outside edge of truss.

*This symbol indicates the required direction of slots in connector plates.

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*Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4



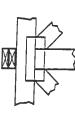
dimension is the length paratlet perpendicular to slots. Second The first dimension is the width

LATERAL BRACING



output. Use T, I or Eliminator bracing by text in the bracing section of the Indicated by symbol shown and/or

BEARING



number where bearings occur reaction section indicates joint Indicates location where bearings (supports) occur. Icons vary but

ANSI/IPIT: Industry Standards:

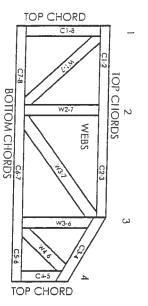
National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

Installing & Bracing of Metal Plate Guide to Good Practice for Handling, Building Component Safely Information, Connecled Wood Trusses,

BCSII: DSB-89

Numbering System

6-4-8 dimensions shown in II-in-sixteenths



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO

NUMBERS/LETTERS CHORDS AND WEBS ARE IDENTIFIED BY END JOINT

CONNECTOR PLATE CODE APPROVALS

BOCA

96-31, 95-43, 96-20-1, 96-67, 84-32

ICBO

4922, 5243, 5363, 3907

SBCCI

9667, 9730, 9604B, 9511, 9432A



MITek Engineering Reference Sheel: MII-7473

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Properly

- Additional slability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSII.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

2.

- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, properly owner and
- 4 Cut members to bear lightly against each other

S

- Place plates on each face of truss at each locations are regulated by ANSI/TPII joint and embed fully. Knots and wane at joint
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPIT.
- Unless olherwise noted, moisture content of tumber shall not exceed 19% at time of fabrication.
- œ Unless expressly noted, this design is not applicable for use wilh fire retardant or preservative treated lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load dellection.
- 10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
- 11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 12. Top chords must be sheathed or purlins provided at spacing shown on design.
- 13. Bollom chords require laleral bracing at 10 ft. spacing. or less, if no ceiling is installed, unless otherwise noted.
- 14. Connections not shown are the responsibility of others
- 15. Do not cut or aller truss member or plate without prior approval of a professional engineer
- 16. Install and load vertically unless indicated otherwise.

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Florida

Building Code

Manufact

Buildings

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The Hottle Department of Community Affairs Building Gode Information System



PRODUCT APPROVAL

Product Type Detail

Overview

Product Search

Organization Search Product Application

User: Public User - Not Associated with Organization -

Need Help?

Application #:

Date Submitted:
Product Manufacturer:

10/16/2004 Englert Inc.

FL3531

Address/Phone/email:

5110 Causeway Blvd. Tampa, FL 33619

(813) 248-2296

Technical Representative:

Joe F. Tripod

Technical Representative Address/Phone/email:

1200 Amboy Avenue Perth Amboy, NJ 08862 J.Tripod@englertinc.com

0 11/4 4

Quality Assurance Representative:

Gene Johnson

Representative:

Quality Assurance Representative Address/Phone/email: 1200 Amboy Avenue Perth Amboy, NJ 08862 G.Johnson@EnglertInc.com



Category:

Roofing



Subcategory:

Non-structural Metal Roofing



FRC

Building

Commission

Evaluation Method:

Evaluation Report from a Florida Registered Architect or

Florida Professional Engineer



Referenced Standards from the <u>Section</u> Florida Building Code: 1507.5

Section Standard 1507.5 UL 580

<u>Year</u> 1994

Florida Engineer or Architect

Name:

James L. Buckner

Florida License:

PE-31242

Quality Assurance Entity:

Underwriters Laboratories Inc.

Validation Entity:

Warren W. Schaefer, P.E.



8

Authorized Signature:

James Buckner

jimmy@cbuckinc.net

Evaluation/Test Reports

Uploaded:

PTID 3531 T 1-

Series 1100 032 Alum On Wood 16 in EVALREPORT.pdf

PTID 3531 T 2-

Series 1101 24 Ga Steel On Wood 16 in EVALREPORT.pdf

PTID 3531 T 3-

Series 1101 032 Alum On Wood 16 in EVALREPORT.pdf

PTID 3531 T 4-

Series2000_040AlumOnWood_18in_EVALREPORT.pdf

PTID 3531 T CertOfIndep&QA.pdf

Installation Documents

Uploaded:

Product Approval Method:

Method 1 Option D

Application Status:

Approved

Date Validated:

10/25/2004

Date Approved:

12/08/2004

Page:

Go

Page 1 / 1

App/Seq #	Product Model # or Name	Model Description	Limits of Use
3531.1	1- "Series 1100"	Aluminum, 16" Wide Panel over Wood Deck	Design Pressure = 37.5 psf Increased design pressures at perimeter and corner areas, in compliance with Florida Building Code, Chapter 16, may be met through rational analysis. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 104. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.
			Design Pressure = 123.5 psf Increased design pressures at perimeter and corner areas, in compliance with Florida Building Code, Chapter 16, may be met through

3 <mark>531.2</mark>	2- "Series 1101"	Minimum 24 GA Steel, 16" Wide Panel over Wood Deck	rational analysis. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 104. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.
3531.3	3- "Series 1101"		Design Pressure = 37.5 psf Increased design pressures at perimeter and corner areas, in compliance with Florida Building Code, Chapter 16, may be met through rational analysis. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 104. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.
3531.4	4- Selles 2000	Minimum 0.040" Aluminum, 18" Wide Panel over Wood Deck	Design Pressure @ Clips spaced 24" o.c. = 70 psf Design Pressure @ Clips spaced 8" o.c. = 123.5 psf Increased design pressures at perimeter and corner areas, in compliance with Florida Building Code, Chapter 16, may be met through rational analysis. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All

rational analysis
computations shall be
prepared by a qualified
design professional, as
required by Florida
Building Code, Section
104. This product is not
approved for use in the
High Velocity Hurricane
Zone. Refer to Evaluation
Report.

Next



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Lavi & Associates

Consulting Engineers

7550 Forest Ln. Suite 108 Dallas, TX 75243 Tel: (214) 340-0049 Fax: (214) 340-0067

February 6, 2003

Mr. Joseph Tripod Englert, Inc. 1200 Amboy Avenue Perth Amboy, NJ 08862

RE: Englert Series 1101, 1" high × 16" wide 0.0239" (24 gauge) steel panel UL rating over 19/32" APA-approved plywood sheathing Our Job #03-031

Dear Mr. Tripod:

Following is the result of the engineering study conducted by our office to verify that the Englert Series 1101 panel, 16" wide × 1" high × 0.0239" (24 gauge) thick steel installed over 19/32" thick APA-approved plywood sheathing will meet the requirements of the UL-90 rating when tested in accordance with the Underwriters Laboratories Standard 580. Refer to "Tests for Uplift Resistance of Roof Assemblies" published by Underwriters Laboratories for the test procedure.

- 1. Metal Roof Deck Panels: Englert Series 1101 panel, 0.0239" (24 gauge) thick steel, 16" wide × 1" high at side ribs. Panels continuous over two or more spans without end laps. Material to meet ASTM A653 with minimum yield strength of 50 ksi.
- 2. Attachment to plywood deck: Use #10-12 × 1" long Pancake-head screws with #2 Phillips-drive plated steel wood screws spaced at 8" o.c. Screws must protrude plywood a minimum of ¼".
- 3. Plywood decking: Plywood decking to be graded per PS83 specification, 19/32" thick, exposure 1, APA rated sheathing with square edges. Support for plywood deck must be of sufficient strength to meet UL forces with maximum 24" o.c. spacing.

It should be noted that the above suggested construction is based on an engineering study and has not been tested by the Underwriters Laboratories in accordance to the UL 580 standard.

Series 1101 UL Extrapolation Our Job #03-031 February 6, 2003 Page Two

Roof system must also be designed to withstand the uplift load specified by the local building codes, using appropriate factor of safeties for each component.

Sincerely,

Yoosef Lavi, P.E.

YL/jb

Enclosure:

1) Panel profile

YOUSEFLAVI
59858
CENSE ON ALERO
3

3 Pages

ENGLERT. INC.
1200 AMBOY AVENUE
PERTH AMBOY, NJ 08862

ENGLERT SERIES 1101

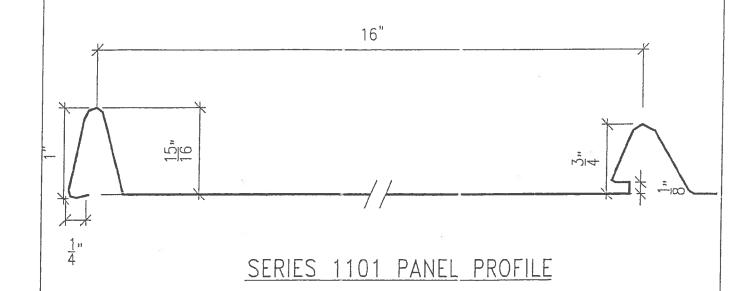
STANDING SEAM PANEL PROFILE

DATE:

FEBRUARY 6, 2003

JOB: 03-031

PAGE: 3



NOTES:

- 1. ALL DIMENSIONS ARE TO CENTER LINE OF MATERIAL
- 2. COATING: PAINTED GALVANIZED
- 3. THICKNESS: 0.024" STEEL (24 GAJGE)





Homze **Housestons** Carrie

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Buildings

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Licinsteller

Mailing trat

Harilding.

lumosas.

Post-it' Fax Note

FBC



Product Type Detail

Product

User: Public User - Not Associated with Organization -

Need Help?

Application #:

Date Submitted:

Product Manufacturer:

Address/Phone/email:

FL2484

05/03/2004

Vistawall Group

8655 Elm Fair Blvd

Tampa, FL 33610 (770) 252-3090



Technical Representative Address/Phone/email:

William Smith

8655 Elm Fair Blvd

Tampa, FL 33610 (800) 366-0349

bsmith@vistawall.com



Quality Assurance Representative

Address/Phone/email:

Architectural Testing Inc.

130 Derry Court

York, PA 17402-9405

(717) 764-7700 surich@archtest.com

Category:

Panel Walls

Subcategory:

Storefronts

Evaluation Method:

Date

Evaluation Report from a Florida Registered Architect or Florida

Professional Engineer

Referenced Standards from the Florida Building Code:

Section **FBC**

2400

Standard Year 1991 **ASTM E 283-**

91

ASTM E 331-

1996

CARL

Co.Depl. LAKE Co. Phone # Phone #

7671

Fax #

96 **ASTM E 330-**1996 96

ASTM E 330-1996

96

Elizabeth Broadway

Florida Engineer or Architect Name:

Florida License:

PE-38558

Quality Assurance Entity:

Architectural Testing, Inc.

Validation Entity:

Architectural Testing, Inc

Authorized Signature:

William Smith

bsmith@vistawall.com

Evaluation/Test Reports Uploaded:

PTID_2484_T_FG1000_RPT.pdf PTID_2484_T_FG2000_RPT.pdf PTID_2484_T_FG3000_RPT

INSIDE.pdf

PTID_2484 T FG3000S

RPT.pdf

PTID 2484_T_letterofindpen

[1].pdf

Installation Documents Uploaded:

Product Approval Method:

Method 1 Option D

Application Status:

Approved

Date Validated:

07/13/2004

Page:

Page 1/1

App/Seq #	Product Model # or Name	Model Description	Limits of Use
2484.1	FG-1000	Glazc	The structural capabilities of the system shall be determined based on the test report data and in conjunction with accepted engineering guidelines.
2484.2	FG-2000	1 3/4" x 4 1/2"	The structural capabilities of the system shall be determined based on the test report data and in conjunction with accepted engineering guidelines.
2484.3	FG-2000	1 3/4" x 4 1/2" Fhish Glaze IG	The structural capabilities of the system shall be determined based on the test report data and in conjunction with accepted engineering guidelines.
2484.4	FG-3000	2" x 4 1/2" Flush Glaze OG/IG	The structural capabilities of the system shall be determined based on the test report data and in conjunction with accepted engineering guidelines.
			The structural capabilities of the system shall be

determined based on the test 2" x 4 1/2" Flush report data and in FG-3000S Glaze Thermal conjunction with accepted engineering guidelines. Slotted Next



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TELEPHIONE (AREA CODE 214)

565-0593 585-0594 421-1400

ASM INTERNATIONAL

CABLE ADDRESS "DALAB"

DALLAS LABORATORIES, INC.

CONSULTANTS AND TECHNOLOGISTS ANALYTICAL AND RESEARCH CHEMISTS -

CHEMICAL ENGINEERS - PETROLEUM ENGINEERS

P. O. BOX 152837 1323 WALL ST

DALLAS, TEXAS 75315

MEMBERS

AMERICAN CHEMICAL SOCIETY AMERICAN SOCIETY FOR TESTING MATERIAL AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN SOCIETY FOR QUALITY CONTROL

Submitted By:

MEMBERS

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

SOCIETY OF PETROLEUM ENGINEERS OF AIME

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS TEXAS SOCIETY OF PROFESSIONAL ENGINEERS

Vistawall Architectural Products Products Development Group

P. O. Box 629 750 Airport Rd. Terrell, TX 75160

Atta: Larry Biebuyck

Date: February 2, 2004 (Original Issue Date: 2/20/1997)

Report No. 25221-R-1R

REPORT

Subject:

Performance testing in accordance with ASTM E 283-91 (Air Infiltration),

ASTM E 331-96 (Water Resistance). ASTM E 330-96 (Uniform Load Deflection),

and ASTM E 330-96 (Uniform Load Structural).

Product Type: Store Front

Series/Model: FG-2000 (Outside Glazed)

Overall Size: 12'9-1/4"x 9'11"

Configuration:

0.0.0

0.0.0

PRODUCT DESCRIPTION

Note: Mock-up was tested using two types of intermediate mullions. One mullion was a typical stationary mullion (part #FG-2100 mull) and (part #FG-2102 filler). The second mull was an expansion mull that would allow for lateral movements (part #FG-2109) and (part #FG-2108).

Weatherstripoine: Two fingered gasket part #(V-11) at the interior and exterior face of expansion mull part #(FG-2108).

Glass: 1/4" tempered.

Glazing: Outside glazed with gasket #(FG-1133) at the interior and exterior of glass. Snap-in glazing bead part #(FG-2106) at the exterior of glass.

Weep Attangement: 1/2"break in perimeter sealant at each intermediate vertical mullion. Water diverter part #(FG-1000-FP-1) installed at each end of horizontal rail.

Scalant: Perimeter caulked with a foam backer rod and scalant at the interior and exterior of mock-up, full span of frame head and jambs. Frame sill sealed exterior with sealant and backer rod and structural silicone only at interior. Exterior seal has 1/2" break at vertical mullions for weepage (See Weep description). Glazing gasket part #(FG-1133), ends are mitered and sealed prior to installation. Butyl gasket at all frame connections. Sealant applied to joint between part #(FG-2169) and (FG-2104) at frame sill. Sealant applied between exterior joint of filler part #(FG-2102), and mull part #(FG-2100).

Vistawall Arch. Products Feb. 2, 2004 Page 2 - Report #25221-R-1R

Other Features: Frame corners are connected with two (2) #14x1" screws per corner. Mock-up was anchored to the test buck using 3" anchors 4" off center of vertical mullions and jambs eight clips at sill and three clips per jamb, and frame head.

Date Testing Started: February 17, 1997

Date Testing Completed: February 17, 1997

Testing Performed At: Vistan

Vistawall testing facility in Terrell, Texas.

PERFORMANCE TEST RESULTS

TITLE OF TEST	TEST METHOD	MEASURED	ALLOWED
Air Infiltration @ 1.57 psf	ASTM E 283-91	0.002 CFM/Ft ²	0.06 CFM/Ft ²
Air Infiltration @ 6.24 psf	ASTM E 283-91	0.003 CFM/Ft ²	0.06 CFM/Ft ²
Water Resistance @ 6.24 psf	ASTM E 331-96	No Leakage	No Leakage
Water Resistance @ 8.00 psf	ASTM E 331-96	No Leakage	No Leakage
Water Resistance @ 9.00 psf	ASTM E 331-96	No Leakage	No Leakage
Water Resistance @ 10.00 psf	ASTM E 331-96	No Leakage	No Leakage
Uniform Load Deflection - Stationa - Exterior @ 20.00 ps - Interior @ 20.00 psf	f	0.580" 0.560"	0.680* 0.680*
Uniform Load Deflection - Expansi - Exterior @ 20.00 ps - Interior @ 20.00 psf	f	0.495" 0.485"	0.680* 0.680*
Uniform Load Structural - Exterior - Interior - Permanent Set	ASTM E 330-96	30.0 psf* 30.0 psf*	30.0 psf* 30.0 psf*
- Stationary Mull - Expansion Mull		Negligible Negligible	0.476* 0.476*

^{*} No glass breakage, permanent deformation, or any other condition exists that caused any damage to the unit.

Vistawall Arch. Products Feb. 2, 2004 Page 3 - Report #25221-R-1R

The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specifications.

DALLAS LABORATORIES, INC. TESTING LABORATORY

KN:td



March 31, 2004

STATE OF FLORIDA

1335 W. Cars Street

Tempo, Fl 33809

[312] 251-9244

Fax: 251-9330

THE DESIGNATION OF SOME

CIMI

MECHANICAL

STRUCTURAL

Brition & Design

2555 Shumard Oak Boulevard Tallahassee, FL 32399-2100

DEPARTMENT OF COMMUNITY AFFAIRS

Manufacturer:

Vistawall Architectural Products

Products Development Group

P.O. Box 629 750 Airport Rd. Terrell, TX 75160

Testing Laboratory: Dallas Laboratories, Inc.

P.O. Box 152837 Dallas, TX 75315

Original Issue Date: February 20, 1997

Revised Date: February 2, 2004

Report No. 25221-R-1R

Product Category: Windows

Product Type:

Store Front

Series/Model:

FG-2000 (Outside Glazed)

To Whom It May Concern:

I have reviewed the test report prepared by Dallas Laboratories, Inc., dated February 20, 1997, and revised February 2, 2004, for the above referenced product. According to this report, the Vistawall Series FG-2000 storefront system was tested in accordance with the following standards:

- 1. ASTM E 283-91 for air infiltration:
- 2. ASTM E 331-96 for water infiltration;
- 3. ASTM E 330-96 for uniform load deflection; and
- ASTM E 330-96 for uniform load structural. 4

According to the information provided in the test report, the Vistawall Series FG-2000 storefront system was tested in accordance with ASTM E 283-91 for air infiltration, ASTM E 331-96 for water infiltration, and ASTM E 330-96 for uniform load deflection and uniform

STATE OF FLORIDA DEPARTMENT OF COMMUNITY AFFAIRS March 31, 2004 Page 2

structural load. Based on the test report data and in conjunction with accepted engineering guidelines to determine the structural capabilities of the system, we hereby certify that the Vistawall Series FG-2000 storefront system fulfills the requirements of the 2001 Florida Building Code Chapter 24.

Sincerely,

BROADWAY ENGINEERING, P.A.

Elizabeth A. Broadway, P.E.

President

Florida Registration No. 38558

2787-2000 ltr.wpd/eab



BUILDING CODE COMPLIANCE OFFICE (BCCO) PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA METRO-DADE PLAGLER BUILDING 140 WEST FLAGLER STREET, SUITE 1603 MIAMI, FLORIDA 33130-1563 (305) 375-2901 FAN (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Vistawall Architectural Products 803 Airport Road Terrell, TX 75160

Score:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHI (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHI may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "FG-2000" Flush Clazed Aluminum Storefront System

APPROVAL DOCUMENT: Drawing No. FG-2000, titled "FG-2000 Framing System", sheets 1 through 3 of 3, dated 10/24/03, prepared by the manufacturer, signed and sealed by William M. Meyers. P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises and renews NOA # 00-0124.02 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez. P.E.



M

NOA No 03-0903.02 Expiration Date: October 02, 2008 Approval Date: November 06, 2003 Page I

Vistawall Architectural Products

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

Manufacturer's die drawings and sections.

 Drawing No. FG-2000, titled "FG-2000 Framing System", sheets 1 through 3 of 3, dated 10/24/03, prepared by the manufacturer, signed and sealed by William M. Meyers, P.E.

B. TESTS

Submitted under NOA#96-1023.02

Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94

2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294

3) Water Resistance Test, per FBC, TAS 202-94

along with installation diagram of an aluminum flush glazed storefront system 10' 0" high x 4'0" mullion spacing, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL-0105-0803-96, dated 08/02/96, signed and sealed by Timothy S. Marshall, P.E.

C. CALCULATIONS

Submitted under NOA#00-0124.02

 Anchor Calculations and structural analysis, prepared by R.E. Fisher & Associates, Inc., dated October 15, 1996, signed and sealed by William M. Meyers, P.E. Complies with ASTM E1300-98

D. QUALITY ASSURANCE

Miami Dade County Building Code Compliance Office.

E. STATEMENTS

 Statement letter of no change, issued by The Vistawall Group, signed by Fred Grunewald, dated 8/27/03.

F. MATERIAL CERTIFICATIONS

1. None

G. OTHER

 Notice of Acceptance No. 00-0124.02 Vistawall Architectural Products, Series "FG-2000" Aluminum Storefront System, approved on 5/26/00 and expiring on 10/02/03.

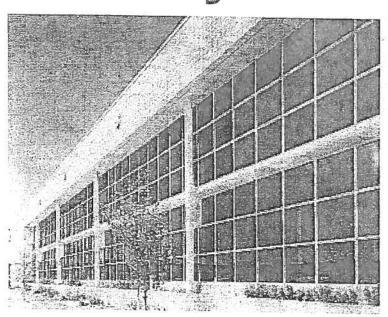
Manuel Perez, P.E.

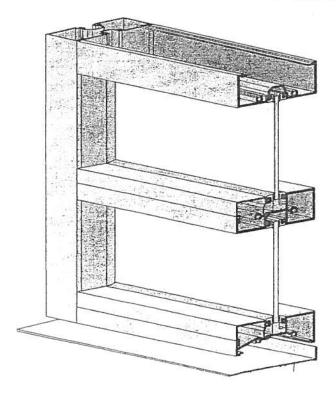
Product Control Examiner

NOA No 03-0903-02 Expiration Date: October 02, 2008

Approval Date: November 06, 2003

Standard Flush Glaze Systems





Vistawall offers a complete line of storefront framing systems to meet virtually any application and condition. The Series 1000 is $14^{\circ} \times 4^{\circ}$ and the Series 2000 is 序》文 序" Both are designed for " glazing but are easily adapted to 1/2" or 1/2" infills. The Series 3000 (2" x 4½") is designed for 1' but is adaptable to many different infills ranging from 1/4" to 11/4" reatures:

- Three different assembly methods: Screw Spline, Shear Block, and Stacking
- Installation manuals
- Tested by independant laboratories:
 - Air Infiltration: < .06 allowable at 6.24 PSF
 - Water Resistance 9PSF
- Door framing components
- Sidelite bases to match door bottom rails
- Multiple comer post configurations
- Adjustable and 135° mullions
- · Anodized or painted finishes

For more information on how Vistawall can meet or exceed your design ideas, call your local sales representative

Vistawall locations: Héadquarters

P.O-Box 629, Terrell, TX 75160 972 551-6100

www.vistawall.com

Atlanta, GA Chicago, IL Cincinnati, OH Cleveland, OH Dallas, TX

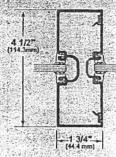
Denver, CO

Houston, TX Las Vegas, NV Los Angeles, CA Modesto, CA Newnan, GA

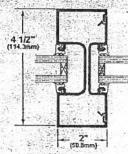
San Francisco, CA

FG-1000

FG-2000



FG-3000



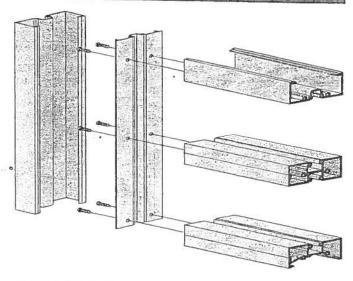
Seattle, WA St Louis, MO Tampa, FL Terrell, TX Warwick, RI Washington, DC



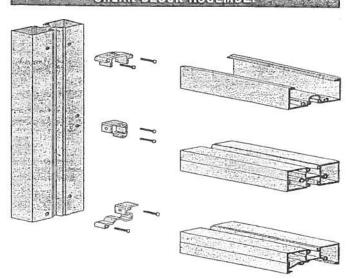
ENGINEERED TO LAST

Standard Flush Glaze Systems

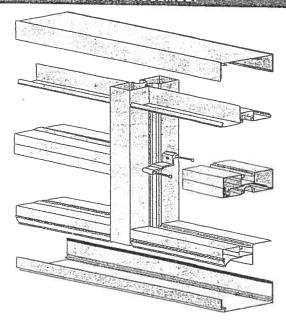




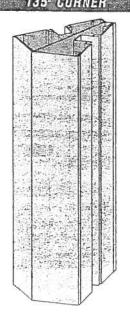
SHEAR BLOCK ASSEMBLY



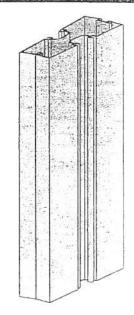
STACK ASSEMBLY



1350 CODNED



ADJUSTABLE MULLION



THE VISTAWALL GROUP
BUTLER MANUFACTURING COMPANY





NATURALITE SKYLIGHT SYSTEMS SKYWALL STRANGE OF THE STREET

FG-2000 TABLE OF CONTENTS

FG-2000 Features
Elevation & Standard System Details - 1/4 Scale Page 4
Optional Framing and Corner Details - 1/4 Scale Pages 5-6
Entrance Framing - 1/4 Scale
Windload Charts Pages 9-10
Note: All Dataile are shown at 1/4 and

Note: All Details are shown at 1/4 scale.

FG-2000 FEATURES

- 1 3/4" x 4 1/2" Framing
- Three different assembly methods: Screw Spline, Shear Block, and Stacking
- Installation Manual available
- Door framing components
- Sidelite bases to match door
- Multiple corner post configurations
- Adjustable and 135° mullions
- Anodized and painted finishes

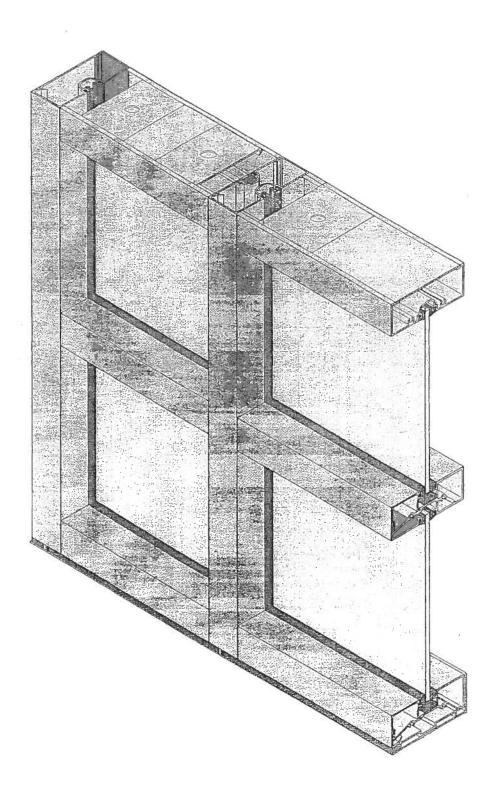
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Water: No leakage @10.00psf

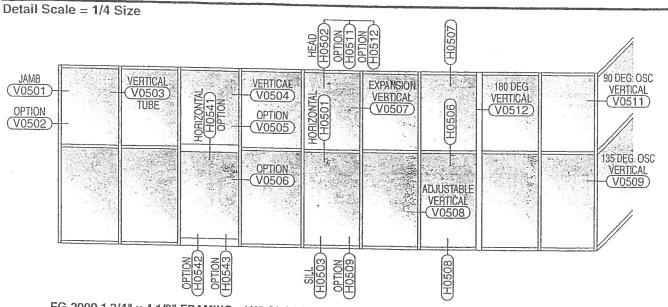
Structural: 30.0psf

To download 3-part specification go to:

www.vistawall.com/specs/FG2000



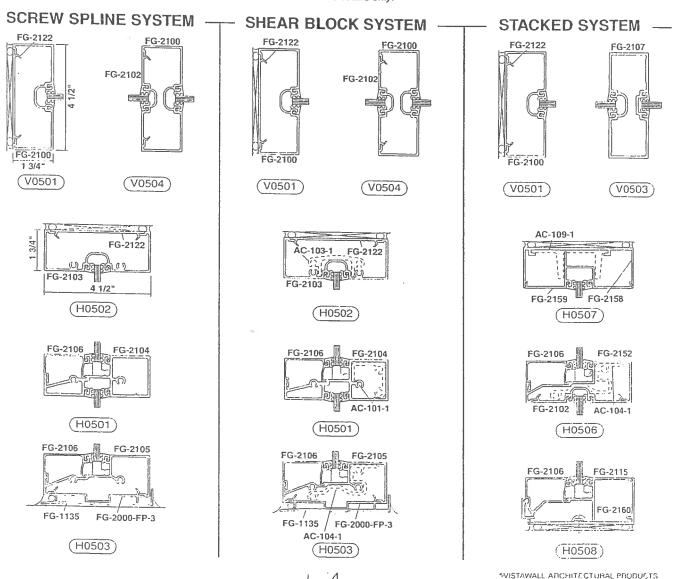
FG-2000 STOREFRONT SYSTEM



FG-2000 1 3/4" x 4 1/2" FRAMING - 1/4" GLASS WEBSITE MODEL NO. 35FG2

To download full size details: www.vistawall.com/fg2000

Drawing numbers shown (ie H0503) are reference to electronic details only.



4

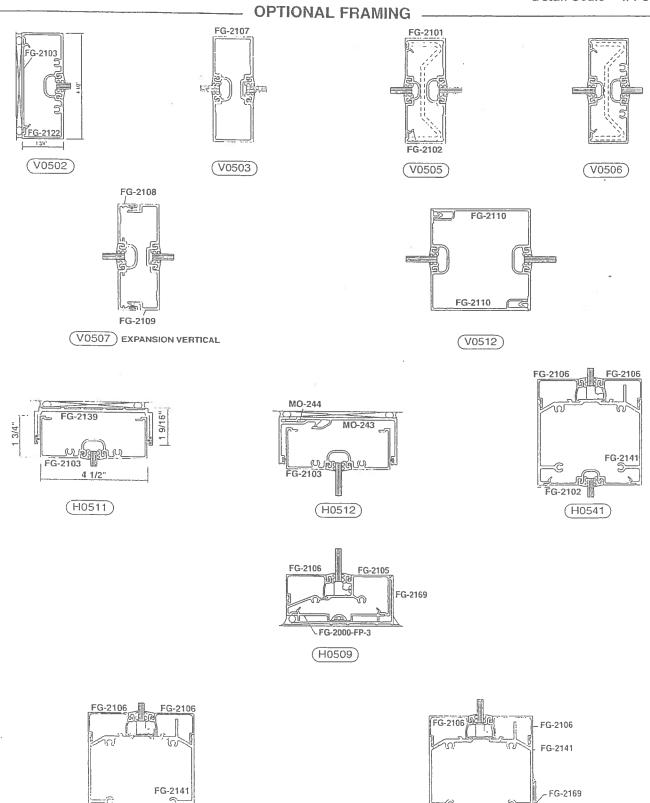
EFFECTIVE 08/04

FG-2000 STOREFRONT SYSTEM

Detail Scale = 1/4 Size

FG-2000-FP-3

(H0543)

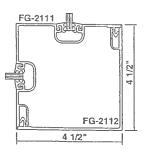


FG-2000-FP-3

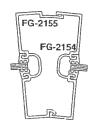
(H0542)

FG-1135

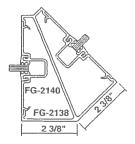
CORNERS -



(V0511) 90° osc



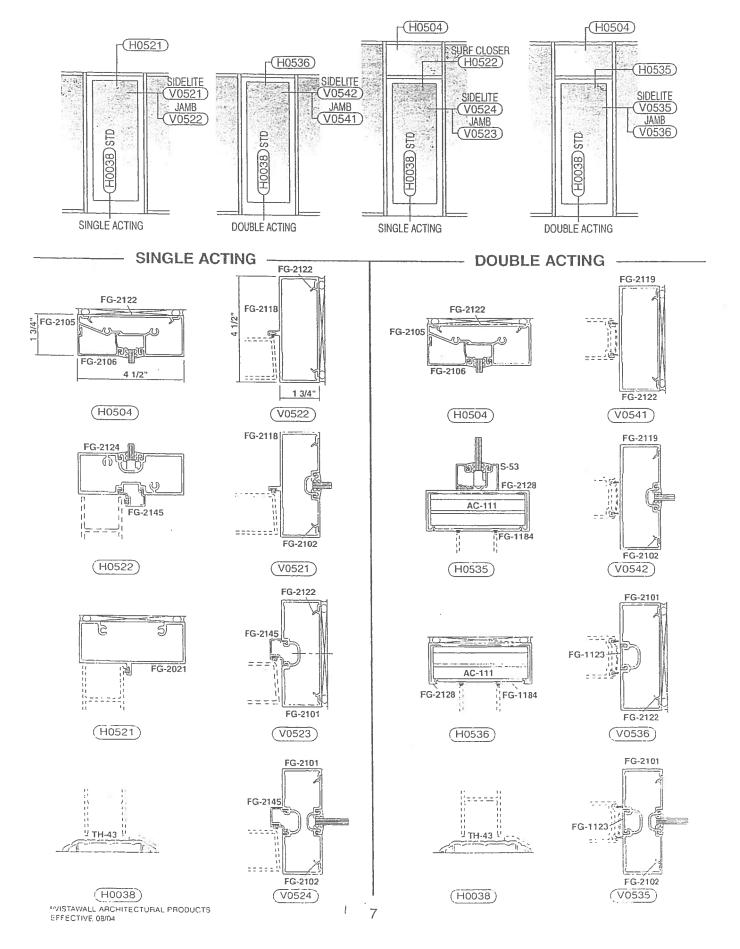
V0508 ADJUSTABLE VERTICAL



(V0509) 135° OSC

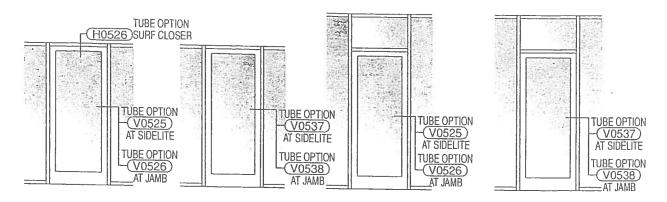
FG-2000 STOREFRONT SYSTEM - ENTRANCE FRAMING

Detail Scale = 1/4 Size



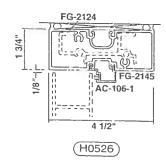
FG-2000 STOREFRONT SYSTEM

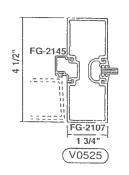
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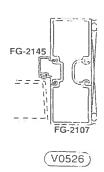


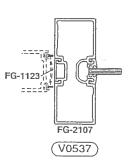
SINGLE ACTING

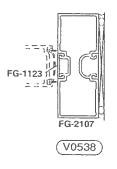






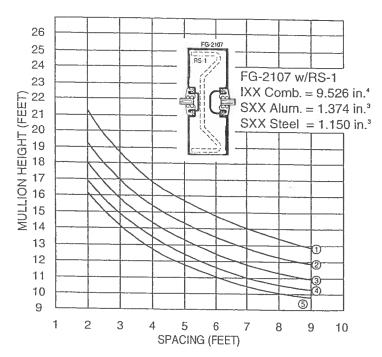






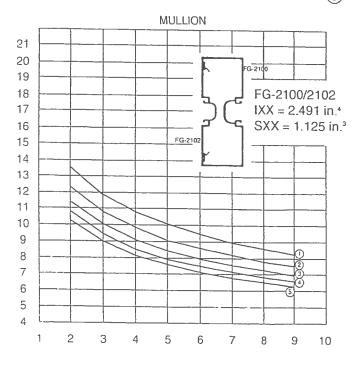
WIND LOAD CHARTS

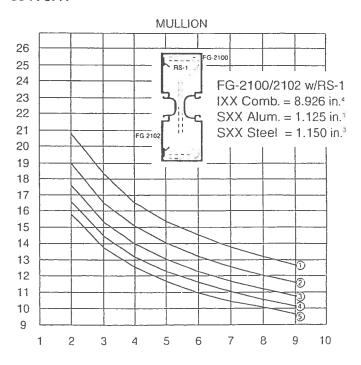
DEFLECTION LIMITED TO L/175 6063-T5



DEFINITION OF CURVES

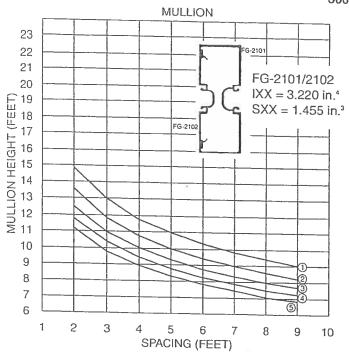
- 1 = 15 P. S. F.
- (2) = 20 P. S. F.
- (3) = 25 P. S. F.
- 4 = 30 P. S. F.
- (5) = 35 P. S. F.

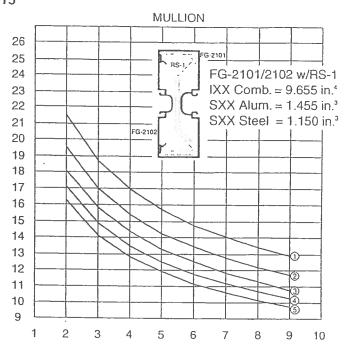




WIND LOAD CHARTS

DEFLECTION LIMITED TO L/175 6063-T5

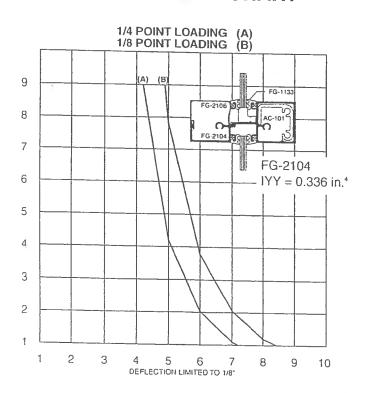




DEFINITION OF CURVES

- (1) = 15 P. S. F.
- (2) = 20 P. S. F.
- (3) = 25 P. S. F.
- (4) = 30 P. S. F.
- (5) = 35 P. S. F.

DEAD LOAD CHART



FOR SHEETS USE IN HIGH WIND LOAD. FASTENER EETS 5-15 FASTENER -2000 FOR DOOR FRAME CHARTS CHART SYSTEMS $\vec{\Omega}$ AREAS -3000

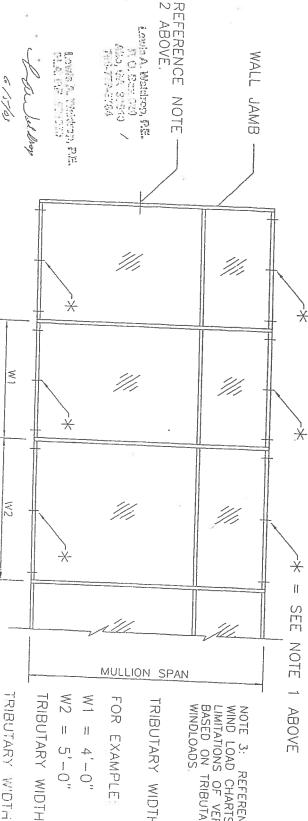
APPLICATION OF SEALANTS. SHOP DRAWINGS AND VISTAWALL INSTALLATION INSTRUCTIONS FOR PROPER LOCATION AND FASTENERS LOCATIONS. NOTE: THESE DETAILS ONLY REPRESENT PLEASE REFERENCE

GRAPHS ON SHEETS 2-4 SHOW THE REQUIRED NUMBER OF FASTENERS AT EACH SIDE OF VERTICAL MULLIONS

NOTE 1:

AT MIDPOINT OF THE HEAD AND SILL MEMBER. FOR EXAMPLE: VERTICAL MULLION HEIGHT IS 70". VERTICAL MULLION SPACING IS 58". MIDPOINT FASTENER CHECK: 70"x0.75=52 ½". 58" IS GREATER THAN 52 ½". THEREFORE ONE (1) EACH ADDITIONAL FASTENER IS REQUIRED AT MIDPOINT OF HEAD AND SILL. IF THE <u>VERTICAL</u> MULLION <u>SPACING</u> EXCEEDS 3/4 OF THE VERTICAL MULLION HEIGHT, ONE (1) EACH FASTENER IS REQUIRED

NOTE 2: JAMB MULLIONS <u>EXCEEDING 6 FT. IN HEIGHT</u> REQUIRE ONE (1) EACH



NOTE 3: REFERENCE VISTAWALL WIND LOAD CHARTS FOR STRUCTURAL LIMITATIONS OF VERTICAL MULLIONS BASED ON TRIBUTARY WIDTH & WINDLOADS

TRIBUTARY WIDTH ≤ 1 + ×2

CI

TRIBUTARY WIDTH 5'-0" 11 4 N +

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11

Q,

DSG

5/15/03

4 - 0

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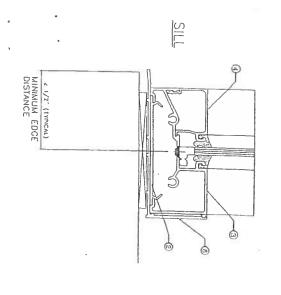
SEE NOTE 1 ABOVE

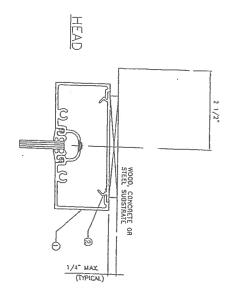
FG-1000, FG-2000 & FG-3000 FASTENER CHART

ARCHITECTURAL PRODUCTS
WALL SAMDERS MEMORIAL ELVID NEWYANG, GA MARKETTEN 1993 MAR

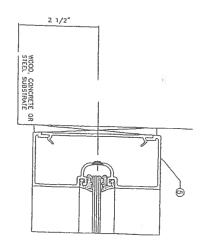
TATALIAL COMP

THE VISTAWALL GROUP BUTT ER HANUFACTURING COMPAIN





Lewis A. Welstrop, R.E. P. O. Sox 628 Alto, SA 59819 Tigotto 5794



*	5	4	(J	2	_	ITEM NO.	
FLASHING	JAMB	GLASS STOP	SILL	FILLER	HEAD	ITEM NO. DESCRIPTION FG-1000 FG-2000	FOR
FG-223:	FG-1:00	FG-1106	1	FG-1122	FG-1103	FG-1000	STOREFRO
FG-223: FG-2231 FG-3380	FG-2100	FG-2106	FG-2105	FG-2122	FG-2103	FG-2000	FOR STOREFRONT SYSTEMS
FG-3380	FG-3100	FG-314	FG-316	FG-212	FG-310	FG-300	MS

6/1/05

DETAILS SHOWN ARE FOR 1/4" CL-ZIKG 1" GLAZING SYSTEM IS SIMLAR. RIVN-STRUCTURAL ANY FLASHING MEMBER MAY 9E SUBSTITUTED

	FOR	FOR STOREFRONT SYSTEMS	AL SASTER	
	DESCRIPTION FG-1000 FG-2000 FG-3000	FG-1000	FG-200	Ö
l i	HEAD	FG-1103	FG-2103	3 FG-3103
[FILLER	FG-1122	FG-2122	2 FG-2122
ł.	SILL		FG-2105	5 FG-3161
	GLASS STOP FG-1106		FG-2106	6 FG-3144
	JAMB	FG-1100 F	FG-2100	0 FG-3100
	FIASHING	FC - 99 1 FC - 33 FC - 33	500	-

\$86,711 TO

DSC Sylexus ر دال د ز دال د

JAMB

VARCHITECTURAL PRODUCTS
THE WALT LANDER! MEMORAL BLUD NEWHAN C. VIZZE TO THE

THE VISTAWALL GROUP BUTLER MANUFACTURING COMPANY

NOTE: POSITION A SNAP-IN FLAT FILLER NO LESS THAN 18" IN LENGTH AT FASTENER LOCATIONS.

RECOMMENDED SPACING OF FASTENERS ON EACH SIDE OF VERTICAL MULLIONS AT HEAD & SILL;

1. EDGE OF VERTICAL TO & OF 1ST FASTENER = 2"

2. ADDITIONAL FASTENERS WILL NOT IMPROVE STRUCTURAL PERFORMANCE.

FG-1000, FG-2000 & FG-3000 FASTENER CHART

(1.5)

(2.5)

HEIGHT FEET (METERS)

ANCHOR CHART

N

PENETRATION INTO WOOD EACH SIDE OF MULL

1/4" WOOD SCREW W/ 2" MIN.

TRIBUTARY WIDTH IN FEET (METERS)

4 S

MULLION

MULLION HEIGHT (METERS)

TRIBUTARY WIDTH IN FEET (METERS)

4

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0

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(2)

& 3000 PSI CONCRETE SUBSTRATES

2500

3/4" MIN. EMBED. INTO CONCRETE EACH.... SIDE OF MULL HEAD "4" SLEEVE ANCHOR OR EQUIV.) WITH

HILL ZILVENI DSC (2713-6) FG-1000, FG-2000 & FG-3000 FASTENER CHART

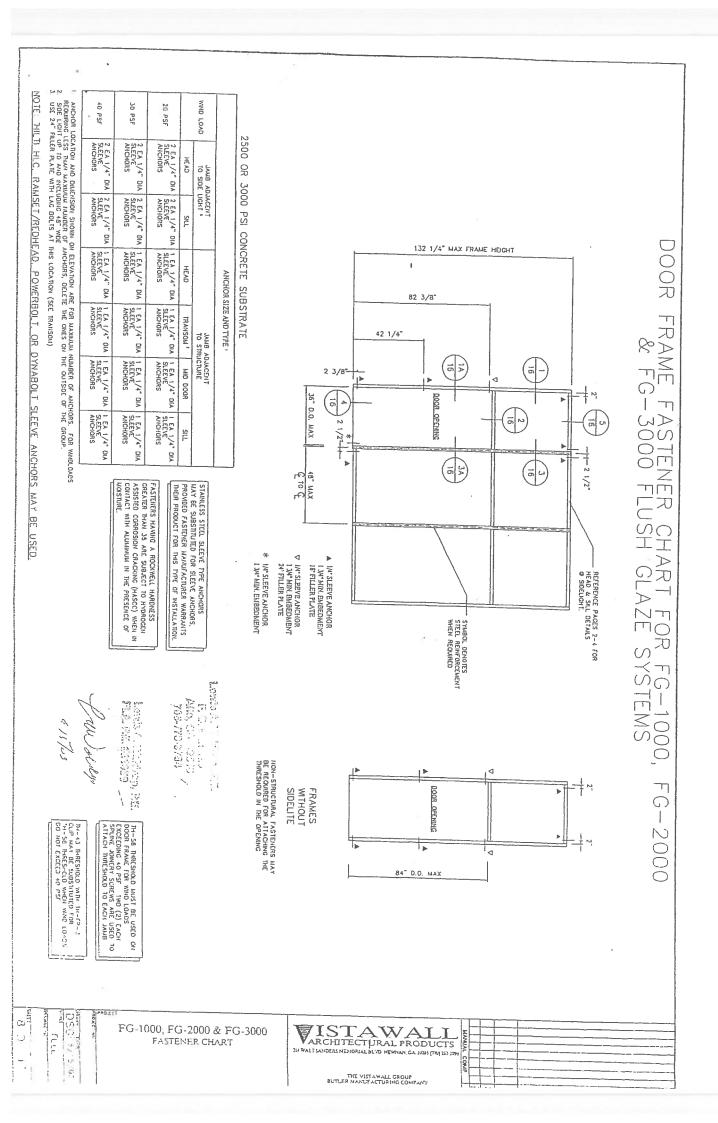
THE VISTAWALL GROUP BITTLER MARIUFACTURING COMPANY

(2.5)

(3)



ANCHOR CHART



Lowis A. Waldren, T.E.

P. O. BOX 703

Alto, GA. 25039

706-778-3784

TRIBI

TR

TRIBUTARY WIDTH IN FEET (METERS)

[STEEL SUBSTRATE]

ONE (1) 1/4" DIAM. TEK EACH

SIDE OF MULL

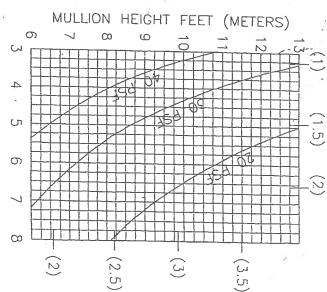
STEEL: FY = 36 KSI MIN.

MINIMUM EDGE DISTANCE EQUALS

1.5 X BOLT DIAMETER.

Wich DI.

BSC 5/13/0.



NCHOR

CHART

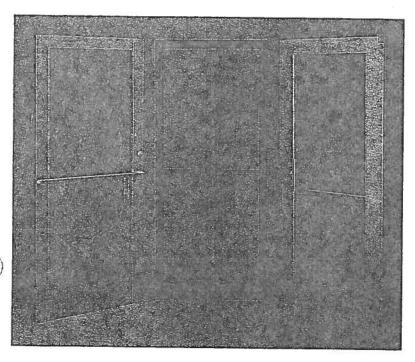
FG-1000, FG-2000 & FG-3000 FASTENER CHART VISTAWALL

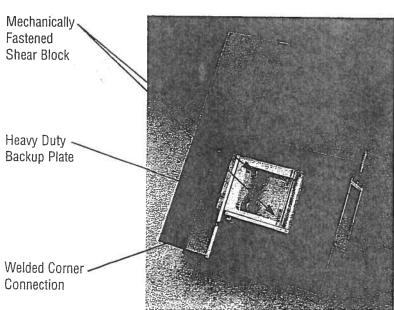
VARCHITECTURAL PRODUCTS

TH PALTS AND DEPORTUDING A STELL (TITT) SEE 1000

75 105 11111

Standard Entrances





Vistawall offers standard narrow, medium and wide stile entrances to meet a wide range of traffic requirments. All standard Vistawall entrances (3'-0" wide) are ADA compliant and have built-in features that include:

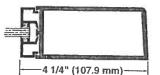
- Maximum security hook bolt locks
- Heavy extruded push/pulls
- Adjustable astragal with dual weathering on pairs of doors
- Mechanically fastened shear blocks and welded corner construction
- Adaptable to virtually all hardware
- 4" to 10" one piece bottom rail options
- Glass stops with bulb gaskets
- 1/4", 3/8" 5/8" and 1" glazing options



 Adaptable to meet local building codes

 Limited lifetime warranty Vistawall entrances are durable and virtually mainte-

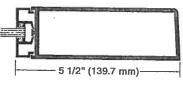
Series 212 - Narrow Stile



Series 375 - Medium Stile

nance free. Vistawall also offers a complete line of custom, specialty and all glass entrances. For more information on how Vistawall can meet or exceed your design

ideas, call your local sales representative or contact the customer service department in Terrell, Texas.



Series 500 - Wide Stile

Vistawall locations:

Headquarters P.O. Box 629, Terrell, TX 75160

972-551-6100

www.vistawall.com

Atlanta, GA Chicago, IL Cincinnati, OH Cleveland, OH Dallas, TX

Denver, CO.

Houston, TX Las Vegas, NV Los Angeles, CA

Modesto, CA Newnan, GA San Francisco, CA Seattle, WA St Louis, MO Tampa, FL Terrell, TX Warwick, RI

Washington, DC

ISTAWALL

212 - 375 - 500 ENTRANCES

Specifications

General

All aluminum entrances shall be Series _______(212, 375 or 500 — Architect to specify) as shown on the architectural drawings and manufactured by Vistawall Architectural Products. The immediate door frames, sidelights and fixed windows shall be of the same manufacturer. If substitute materials are to be considered they must be supported by technical literature such as drawings and samples no less than ten (10) days prior to bid for proper evaluation.

Materials

All door and framing sections shall be of extruded aluminum alloy and temper to meet or exceed finishing and structural criteria as specified. Door stiles and rails, excluding glass stops, shall be tubular and have .125 wall thickness. All weathering shall be a hardbacked silicone treated polypropylene. Any exposed fasteners shall be aluminum, stainless steel or other non-corrosive material.

Finish

All exposed surfaces shall be free of unsightly scratches and blemishes. The exposed sections shall receive a caustic etch followed by an anodic coating.

Color shall be...

Enduracolor Bronze or Black with an architectural class anodic coating.

Clear finish with an architectural class anodic coating.

Construction and Design

Door stiles and rails shall be accurately joined at corners with heavy concealed reinforcement brackets secured with bolts and screws, and shall be MIG welded. Doors shall have snapin stops with bulb glazing vinyl on both sides of the glass. No exposed screws shall be permitted. Each door leaf shall be equipped with an adjusting mechanism located in the top rail near the lock stile which provides for minor clearance adjustments after installation. Weathering shall be installed in the hinge stiles of pairs or single center hung doors. The lock stile of a single center hung door, active meeting stile at a pair of butt hung, offset pivot, or center hung doors shall have an adjustable astragal weatherstrip.

Door frame and sidelight framing shall be accurately joined at corners with unexposed screws. All glazing shall be flush,

including the horizontal muntins and sills and held in place by E.P.D.M. glazing gaskets on both sides. No applied stops shall be permitted except at the transom bar of center hung doors All butt-hung and offset pivot door frames shall have door stops at jambs and head with continuous weathering.

Standard Hardware

All doors shall be equipped with a maximum security hookboli lock. Pairs of doors shall be equipped with lever type flush bolts in the top and bottom of the inactive meeting stile. Operating hardware shall be butt hinges, offset pivots or center pivots as supplied by the door manufacturer. Closers for butt hung and offset pivoted doors shall be door manufacturer's standard surface closer. Closers for center pivoted doors shall be door manufacturer's standard overhead concealed closers. All butt hung and offset pivoted doors shall have PH-10 pull handle and PB-11 push bar. All center pivoted doors shall have PB-11 push bars on both sides. Bronze finished hardware shall have an integral accent strip.

(see VIP section for VIP specification).

Custom Hardware (Architect may specify)

If hardware items are to be supplied to the door manufacturer by others, templates and physical hardware must be submitted to the door manufacturer prior to fabrication.

Erection

All openings shall be prepared plumb and square by others and shall be of sufficient size to provide clearance at jambs, head and sill as shown on the architectural drawings. Installation, glass and glazing shall be performed by experienced technicians according to the manufacturer's recommended procedures. All units shall be securely anchored with all joints fully caulked to insure a water tight seal.

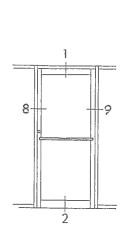
Cleaning

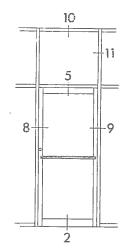
Upon completion of construction, the general contractor shall be responsible for cleaning all aluminum, employing methods recommended by the manufacturer as follows: Anodized aluminum shall be cleaned with plain water containing a mild detergent, or a petroleum product such as white gasoline, kerosene or distillate. No abrasive agent shall be used.



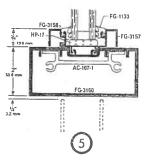
SCALE = 1/4 SIZE

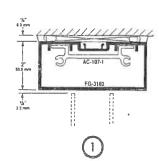
Double Acting Doors

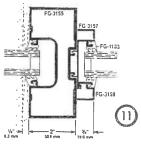


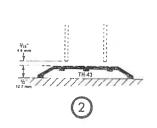


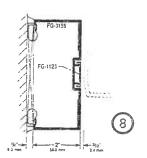
Door framing members do not receive THERMAL SLOT™

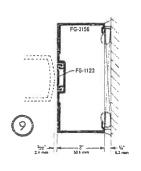


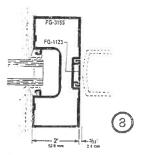






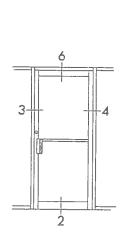


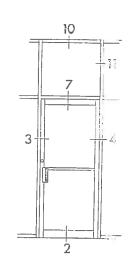


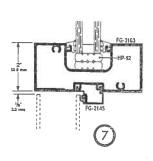


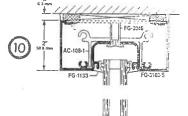
© 1995 Vistawall Architectural Products

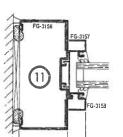
Single Acting Doors

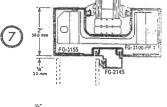


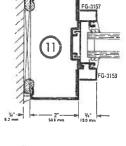


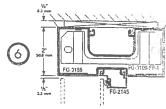


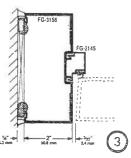


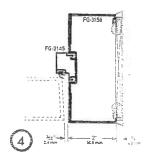








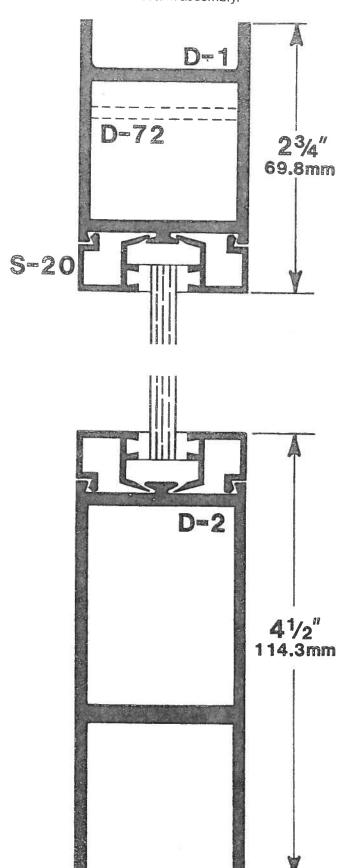


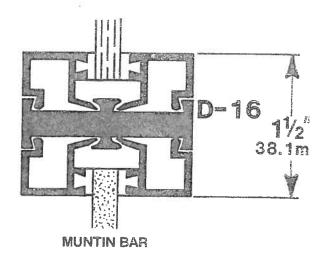


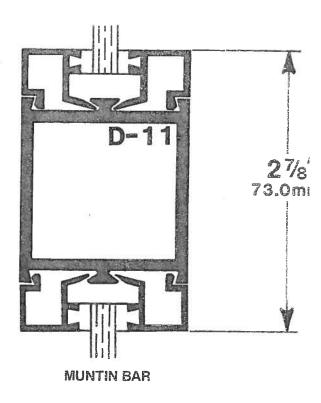


-2-

NOTE: D-72 Top rail is required with standard offset arm assembly.







VISTAV/ALL ARCHITECTURAL PRODUCTS
EFFECTIVE 4/89

)593)59≤ 1400

DALLAS LABORATORIES, INC.

CONSULTANTS AND TECHNOLOGISTS

ANALYTICAL AND RESEARCH CHEMISTS -

CHEMICAL ENGINEERS - PETROLEUM ENGINEERS

P. O. BOX 15705

DALLAS, TEXAS 75215

MSMBERS

American Chemical Scciety American Society for Testing Material American National Standards Institute American Society for Quality Control

nted by:

ERNATIONAL

Vistawall Architectural Products

P. O. Box 629 803 Airport Road Terrell, TX 75160

Attn: Mr. Tom Merrell

Date January 25, 1989

Report No. ____13403

MEMBERS

IN INSTITUTE OF CHEMICAL ENGINEERS

COIETY OF PROFESSIONAL ENGINEERS

OF PETROLEUM ENGINEERS OF AIME

IL SOCIETY OF PROFESSIONAL ENGINEERS

REPORT

Door Corner Joint Strength Test

Test specimens were top corner assembly of the following: Narrow Stile Door - Series 212, Medium Stile Door - Series 375, and Wide Stile Door - Series 500.

Corner Construction is as follows: The rail is notched $(3/4" \times 3/16" \text{ w/ } 5/32 \text{ radius})$ at both inside and outside corners, welded at both notches to stile and corner block, a threaded $(1\frac{1}{2}" \times 2-7/8" \times 1/8")$ steel back-up plate, four #10x3/4" screws, two $\frac{1}{2}"(20)x1"$ hex bolts and two split washers.

Test Method

Methods and procedures of test were provided by Vistawall Architectural Products and are attached to this report.

Test Results Specimen	Load (1bs)	Deflection (inch)	Rotation (Degrees)	Joint Opening (inch) Inside/Outside	Corner Condition
N CA 13					
Narrow Stile #1	108.31 124.01 135.75 151.45 167.15 182.85 198.55 214.25 229.95	0.110 0.133 0.160 0.200 0.250 0.320	1°03° 1°16° 1°32° 1°55' 2°23° 3°03'		Good Good Good Good Good Good Welds torn <45° Rotation >45° Rotation - Failure

(Continued)

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Test Results	(Continued) #		,	10 L02 3131 F.83/83
Specimen	Load (1bs)	Deflection (inch)	Rotation (Degrees)	Joint Opening (inch) Inside/Outsid	
Narrow Stile #2	108.31 124.01 135.75 151.45 167.15 182.85 198.55	0.127 0.157 0.200 0.279 0.420	1°13' 1°30' 1°55' 2°40' 4°12'	0.036/0.022 0.050/0.027 0.068/0.042 0.096/0.063	Good Good Good Good Good Rotation Welds torn -
	214.25 229.95	eo		-	failure No change 56° Rotation
Narrow Stile #3 Medium Stile	108.31 124.01 135.75 151.45 167.15 182.85 198.55 214.25 229.95	0.107 0.133 0.158 0.200 0.242 0.275 0.350 0.417 0.509	1°01' 1°16' 1°31' 1°55' 2°19' 2°37' 3°20' 3°58' 4°51'	0.015/0.002 0.022/0.005 0.031/0.008 0.046/0.013 0.055/0.025 0.069/0.034 0.105/0.050	Good Good Good Good Good Good Good Corner intact < 45° Rotation No separation of parts.
#1	108.87 124.57 140.27 155.97 177.67 187.37 203.07 218.77 229.62	0.120 0.123 0.152 0.182 0.310 0.470	1°09" 1°10" 1°27" 1°44" 2°58" 4°29"	- 43° F	Good Good Good Good Good Good Rotation - Welds tore 42° Rotation Rotation - No
Medium Stile #2	108.87 124.57 135.42 151.12 166.82 182.52 198.22 213.92 229.62	0.100 0.123 0.137 0.175 0.200 0.240 0.287 0.720	0°90' 1°10' 1°19' 1°40' 1°55' 2°17' 2°44' 7°07'	0.011/0.0 0.016/0.004 0.018/0.005 0.022/0.008 0.033/0.016 0.042/0.025	Good Good Good Good Good < 45° Rotation - Good Good Complete failure - Welds and screws sheared off.

(Continued)

Test	Results	(Continued)	

	(f Milio			
Spec imen	Load (1bs)	Deflection (inch)	Rotation (Degrees)	Joint Opening (inch) Inside/Outside	Corner Condition
Medium Stile #3	108.87 124.57 135.42 151.12 166.82 182.52 198.22 213.92 229.62	0.100 0.120 0.140 0.175 0.192 0.220 0.258 0.297 0.348	0°57° 1°08° 1°20° 1°40° 1°50° 2°06° 2°28° 2°50°	0.014/0.0 0.016/0.003 0.022/0.006 0.032/0.011 0.038/0.014 0.047/0.020 0.060/0.030 0.067/0.040	Good Good Good Good Good Good < 45° Rotation Good No Separation of Parts
Wide Stile #1	108.90 124.60 135.45 151.15 166.85 182.55 198.25 213.95 229.65	0.082 0.100 0.112 0.137 0.174 0.198 0.242 0.320 0.372	0°47° 0°57° 1°04° 1°19° 1°40° 1°53° 2°19° 3°03° 3°37°	0.016/0.013 0.025/0.016 0.029/0.018 0.038/0.022 0.047/0.028 0.060/0.040 0.082/0.055 0.103/0.076	Good Good Good Good Good Good Good Good
Wide Stile #2	108.90 124.60 135.45 151.15 166.85 182.55 198.25 213.95 229.65	0.062 0.075 0.087 0.100 0.120 0.142 0.170 0.240 0.260	0°35" 0°43" 0°50" 0°57" 1°09" 1°22' 1°37' 2°17' 2°29"	0.012/0.008 0.016/0.013 0.020/0.016 0.022/0.018 0.033/0.025 0.048/0.033 0.064/0.045 0.084/0,056	Good Good Good Good Good Good Good Good

(Continued)

Test	Results	(Continued)
		(conribined)

Specimen	Load (1bs)	Deflection (inch)	Rotation (Degrees)	Joint Opening (inch) Inside/Outside	Corner Condition
Wide Stile #3	108.90 124.60 135.45 151.15 166.85 182.55 198.25 213.95 229.65	0.070 0.082 0.092 0.103 0.118 0.138 0.160 0.195 0.230	0°40' 0°47' 0°53' 0°59' 1°08' 1°19' 1°32' 1°52' 2°12'	0.018/0.008 0.022/0.010 0.025/0.012 0.025/0.014 0.032/0.016 0.042/0.020 0.054/0.025 0.072/0.036 0.087/0.042	Good Good Good Good Good Good Good Good

DALLAS LABORATORIES, INC.

JAJ:td

Encl.