



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1107
MIAMI, FLORIDA 33130-1563
(305) 375-2902 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Lüxbau, LLC.
2400 Centrepark West Dr.
Suite No. 150
West Palm Beach, FL 33409

SCOPE:

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 AHJ (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 AHJ 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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION:

Series "Lüxbaum Windows & Doors" 10'0" Outswing Glazed Wood Bi-Fold Doors – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1454, titled "Lüxbaum Windows & Doors 10 Ft. Impact Out-Swing Bi-Fold Doors", sheets 1 through 9 of 9, dated 03/02/10, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 07/01/10, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

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 consists of this page 1, evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J Gascon
 7/14/10

NOA No. 10-0408.15
Expiration Date: August 04, 2015
Approval Date: August 04, 2010
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1454**, titled "**Lüxbaum Windows & Doors 10 Ft. Impact Out-Swing Bi-Fold Doors**", sheets 1 through 9 of 9, dated 03/02/10, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 07/01/10, signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of bi-fold doors, prepared by Hurricane Test Laboratory, LLC., Test Reports No. **HTL-0271-0213-08**, dated June 03, July 27 and February 16, 2010, all signed and sealed by Vinu J. Abraham, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated March 24, 2010, signed and sealed by Warren W. Schaefer, P. E.
Complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.

E. STATEMENTS

1. Statement letter of no financial interest, conformance and compliance with the FBC-2007, dated April 30, 2010, signed and sealed by Warren W. Schaefer, P. E.
2. Laboratory compliance letter for Test Reports No. **HTL-0271-0213-08**, issued by Hurricane Test Laboratory, LLC., dated March 11, 2010, all signed and sealed by Vinu J. Abraham, P. E.
3. Proposal No. **04-0571** issued by BCCO, dated February 02, 2005, signed by Ishaq Chanda, P. E.

F. OTHERS

1. None.



Jaime D. Gascon, P. E.

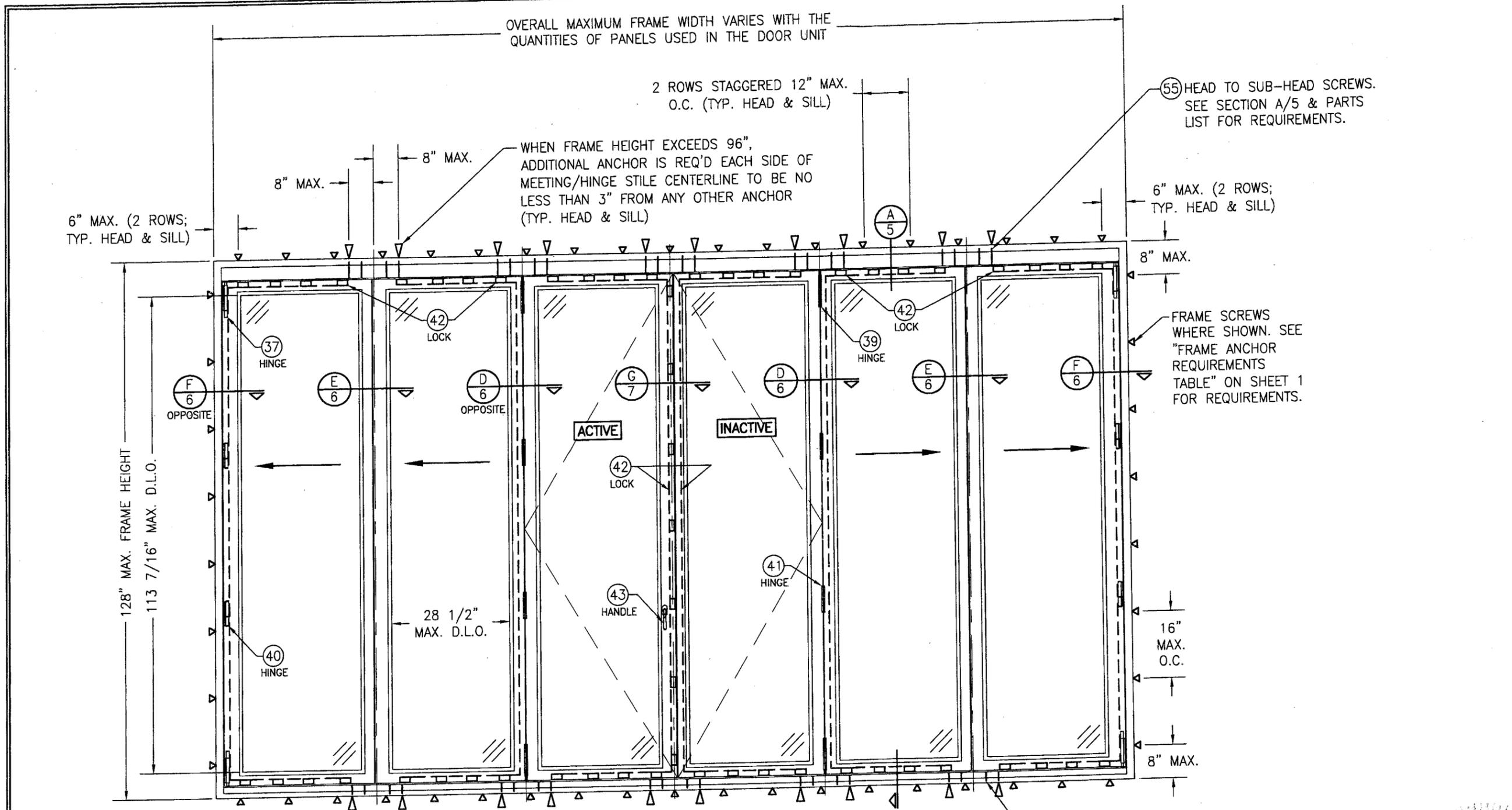
Chief, Product Control Division

NOA No. 10-0408.15

Expiration Date: August 04, 2015

Approval Date: August 04, 2010

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 03/02/10
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE LUXBAUM WINDOWS & DOORS 10FT. IMPACT OUT-SWING BI-FOLD DOORS	
MANUFACTURER LUXBAU, LLC	2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903
CERTIFICATION JUL 01 2010	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1454	REV.
SHEET NO. 2	OF 9



**EXTERIOR ELEVATION:
BI-FOLD DOOR WITH DOUBLE SWING PANELS**

SCALE: 1/2" = 1'-0"
(6 PANELS SHOWN. HOWEVER, THERE IS NO LIMIT TO THE NUMBER OF PANELS IN ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE QUANTITY OF PANELS USED)

Approved as complying with the Florida Building Code
Date **08/04/2010**
NOA# **16-0408.15**
Miami Dade Product Control Division
By *[Signature]*



WHEN FRAME HEIGHT EXCEEDS 96",
ADDITIONAL ANCHOR IS REQ'D EACH
SIDE OF MEETING/HINGE STILE
CENTERLINE TO BE NO LESS THAN
3" FROM ANY OTHER ANCHOR (TYP.
HEAD & SILL)

6" MAX. (2 ROWS;
TYP. HEAD & SILL)

8" MAX.

2 ROWS STAGGERED 12" MAX.
O.C. (TYP. HEAD & SILL)

8" MAX.

6" MAX.
(2 ROWS; TYP.
HEAD & SILL)

OVERALL MAXIMUM FRAME WIDTH VARIES WITH THE
QUANTITIES OF PANELS USED IN THE DOOR UNIT

2 ROWS STAGGERED 12" MAX.
O.C. (TYP. HEAD & SILL)

6" MAX. (2 ROWS;
TYP. HEAD & SILL)

8" MAX.

FRAME SCREWS
WHERE SHOWN.
SEE "FRAME
ANCHOR
REQUIREMENTS
TABLE" ON SHEET
1 FOR
REQUIREMENTS.

128" MAX. FRAME HEIGHT
113 7/16" MAX. D.L.O.

(F 6)
OPPOSITE

(E 6)

(D 6)
OPPOSITE

(39)
HINGE

(42)
LOCK

(37)
HINGE

ACTIVE

(42)
LOCK

(H 7)

(43)
HANDLE

(41)
HINGE

28 1/2"
MAX. D.L.O.

FRONT VIEW

(55) HEAD TO
SUB-HEAD
SCREWS. SEE
SECTION A/5 &
PARTS LIST FOR
REQUIREMENTS.

INACTIVE

(D 6)

(42)
LOCK

(39)
HINGE

(E 6)
OPPOSITE

(37)
HINGE

(F 6)

(42)
LOCK

(40)
HINGE

16"
MAX.
O.C.

8" MAX.

(55) SILL TO SUB-SILL SCREWS. SEE
SECTION A/5 & PARTS LIST
FOR REQUIREMENTS.

SIDE VIEW

**EXTERIOR ELEVATION:
BI-FOLD DOOR WITH 90° CORNER**

SCALE: 1/2" = 1'-0"

(3 PANELS SHOWN AT EACH SIDE. HOWEVER, THERE IS NO LIMIT TO
THE NUMBER OF PANELS IN ONE OPENING PROVIDING THE OPENING
IS DESIGNED TO SUPPORT THE QUANTITY OF PANELS USED)

SIDE VIEW

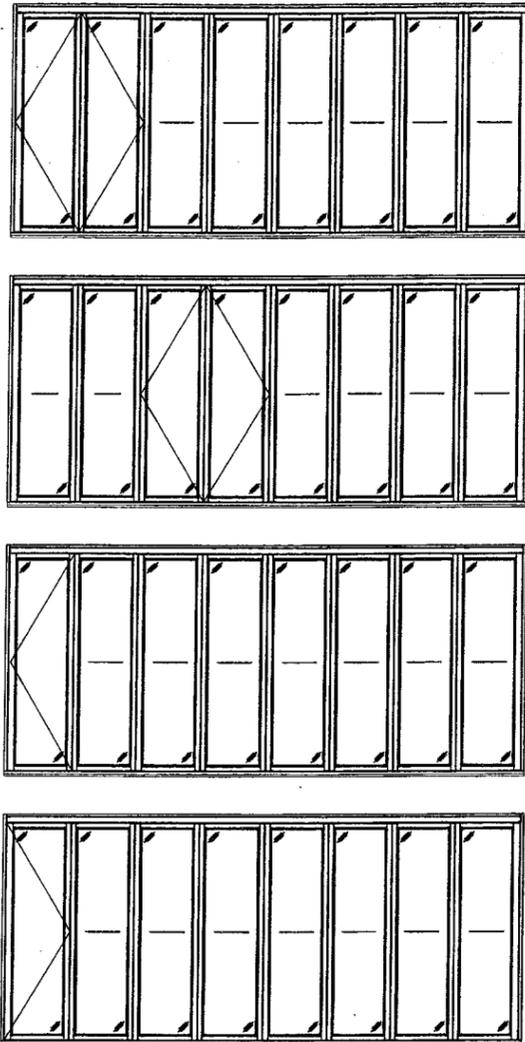
FRONT VIEW

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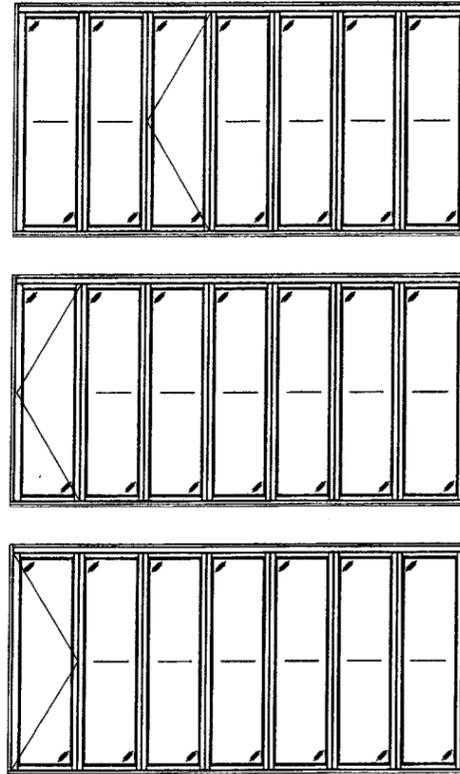


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DRAWING NO. 1454	REV.
SHEET NO. 3	OF 9

TYPICAL 8 PANEL CONFIGURATIONS



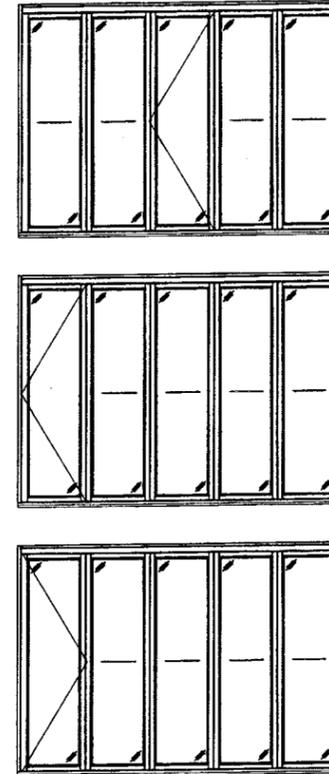
TYPICAL 7 PANEL CONFIGURATIONS



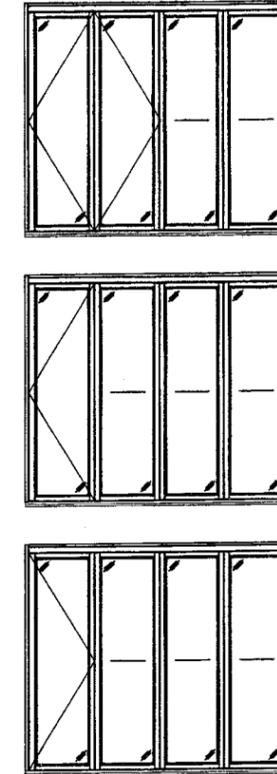
TYPICAL 6 PANEL CONFIGURATIONS



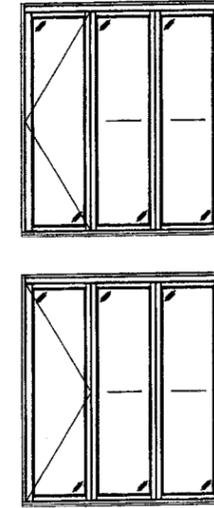
TYPICAL 5 PANEL CONFIGURATIONS



TYPICAL 4 PANEL CONFIGURATIONS



TYPICAL 3 PANEL CONFIGURATIONS

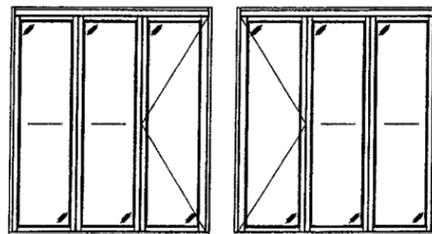


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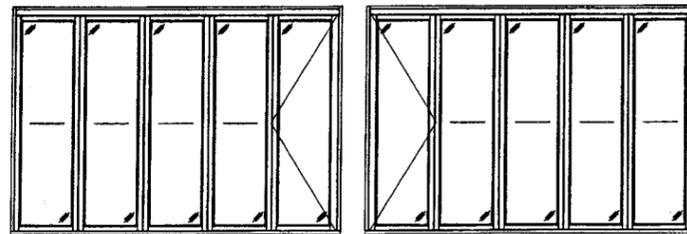
CONDITIONS SHOWN ARE THE MAJORITY OF THOSE USED. OTHER CONDITIONS OF FOLDING & SWING PANELS APPLY PROVIDING THEY ARE WITHIN THE SCOPE OF THE DETAILS WITHIN THIS DRAWING.

WHILE UP TO 8 PANELS IN ONE OPENING IS SHOWN, THERE IS NO LIMIT TO THE NUMBER OF PANELS IN ONE DOOR FRAME OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE DOOR SYSTEM

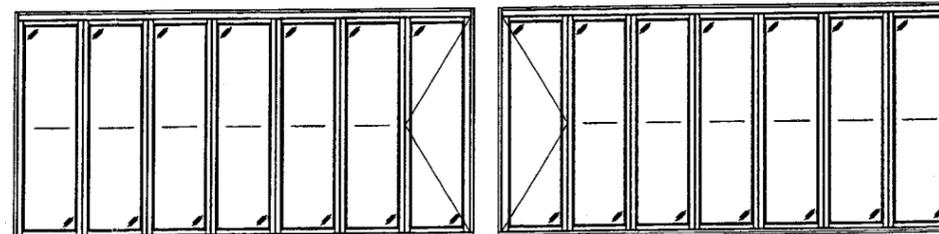
TYPICAL 3 PANEL CORNER CONFIGURATION



TYPICAL 5 PANEL CORNER ONFIGURATION

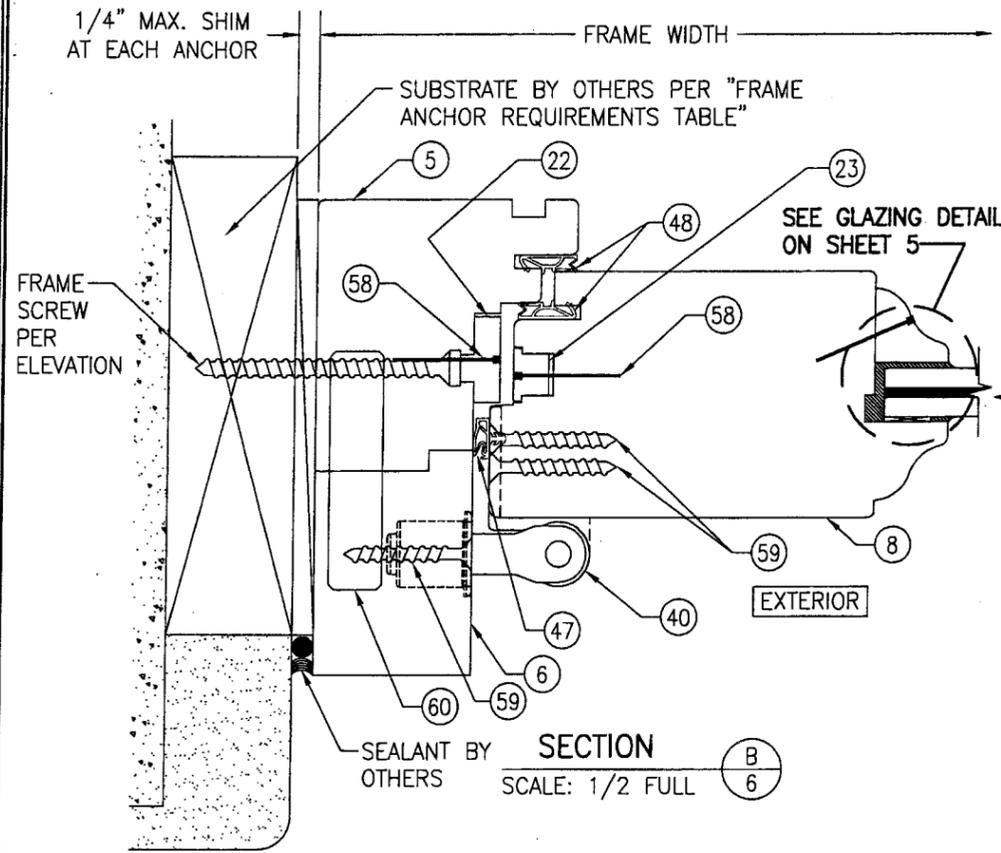


TYPICAL 7 PANEL CORNER CONFIGURATION

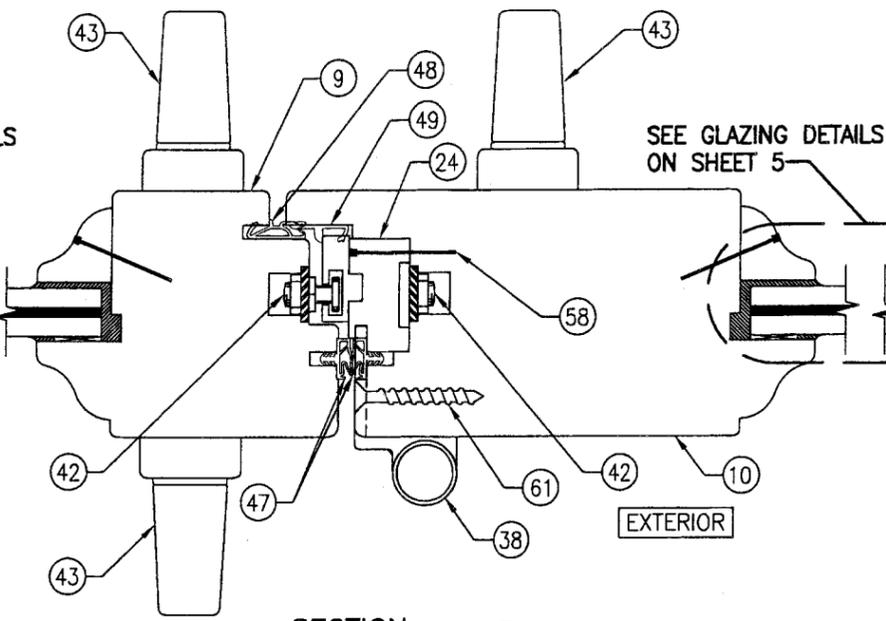


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DRAWING NO. 1454	REV.
SHEET NO. 4 OF 9	

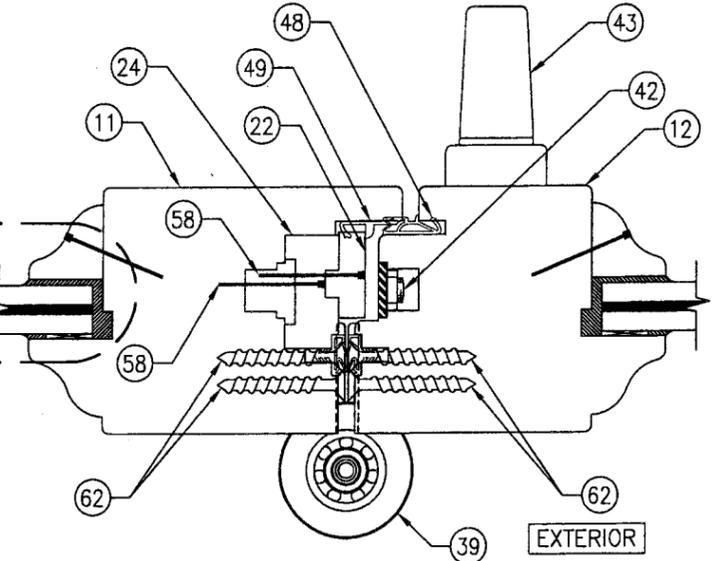




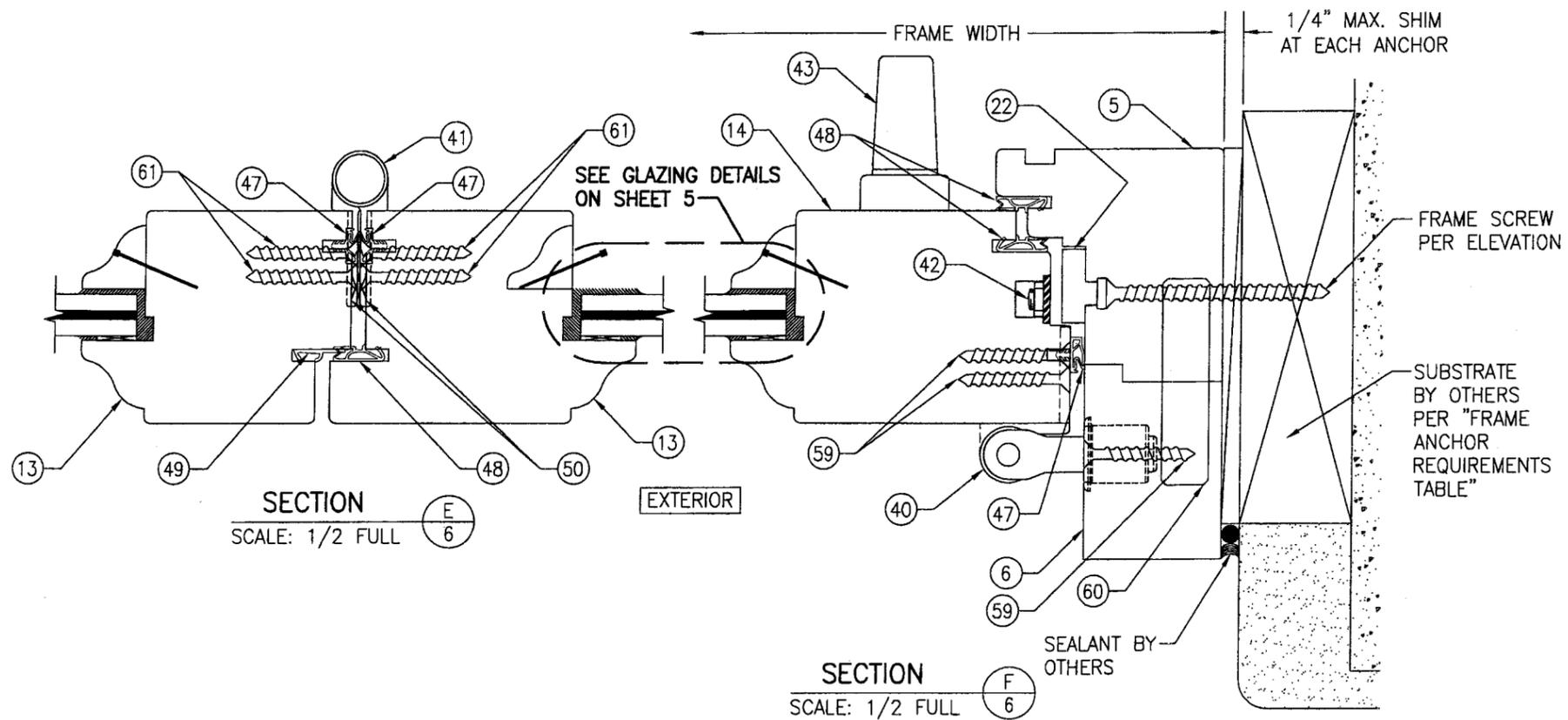
SECTION B
SCALE: 1/2 FULL



SECTION C
SCALE: 1/2 FULL



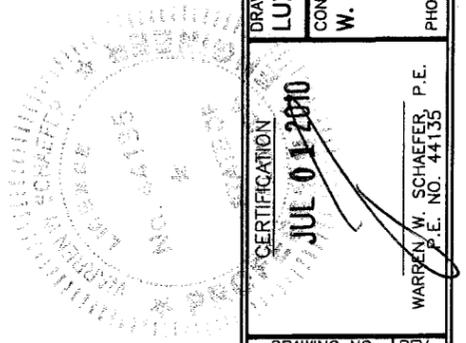
SECTION D
SCALE: 1/2 FULL



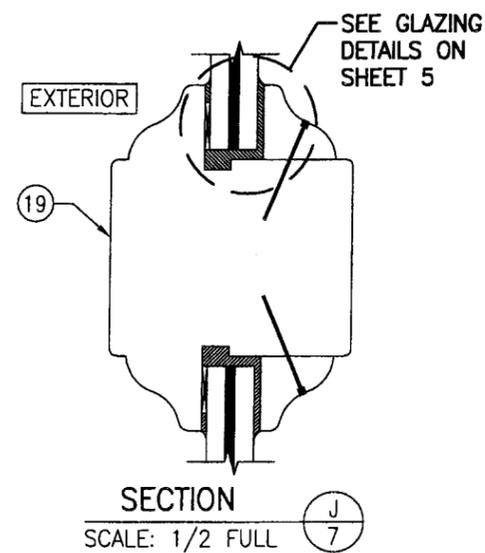
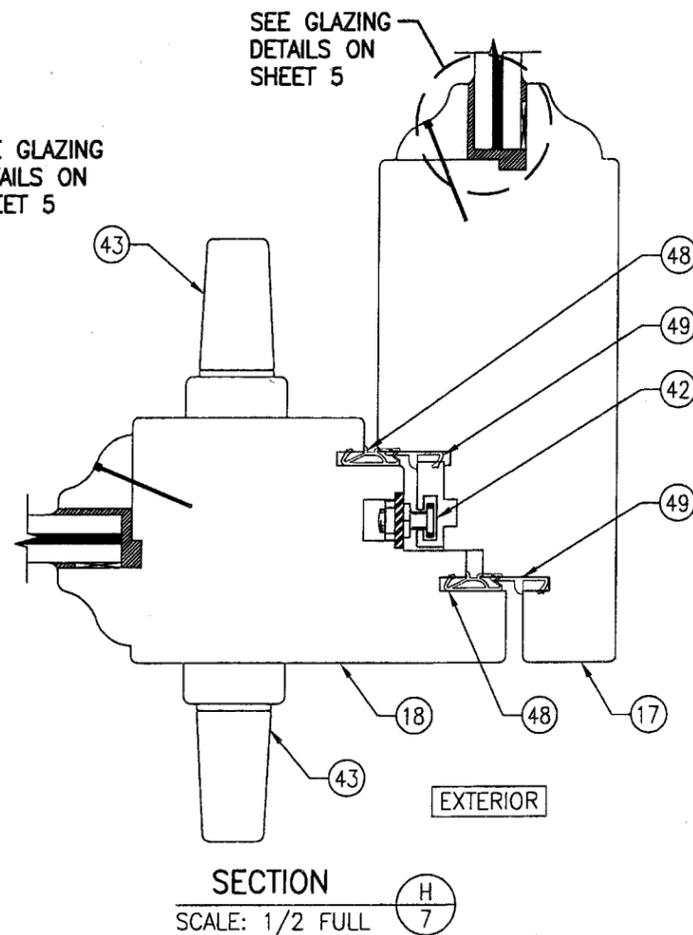
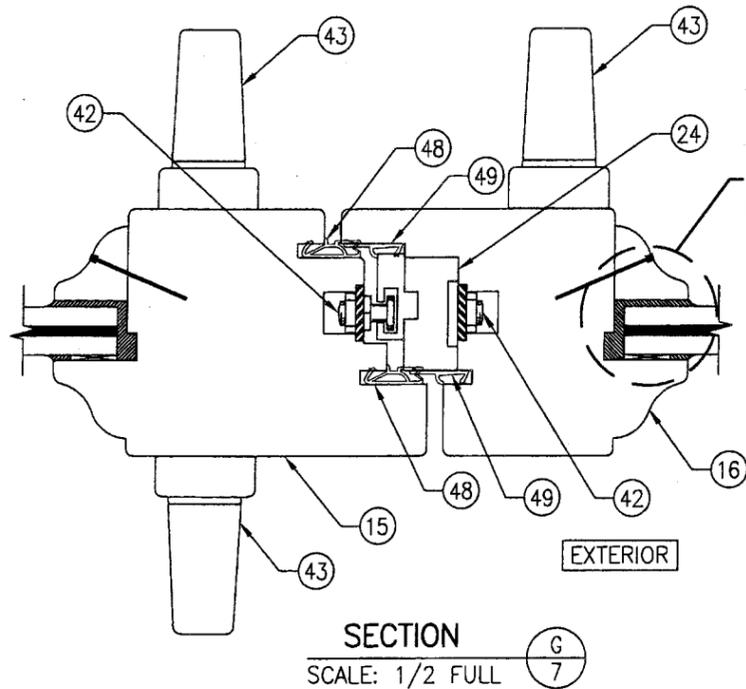
SECTION E
SCALE: 1/2 FULL

SECTION F
SCALE: 1/2 FULL

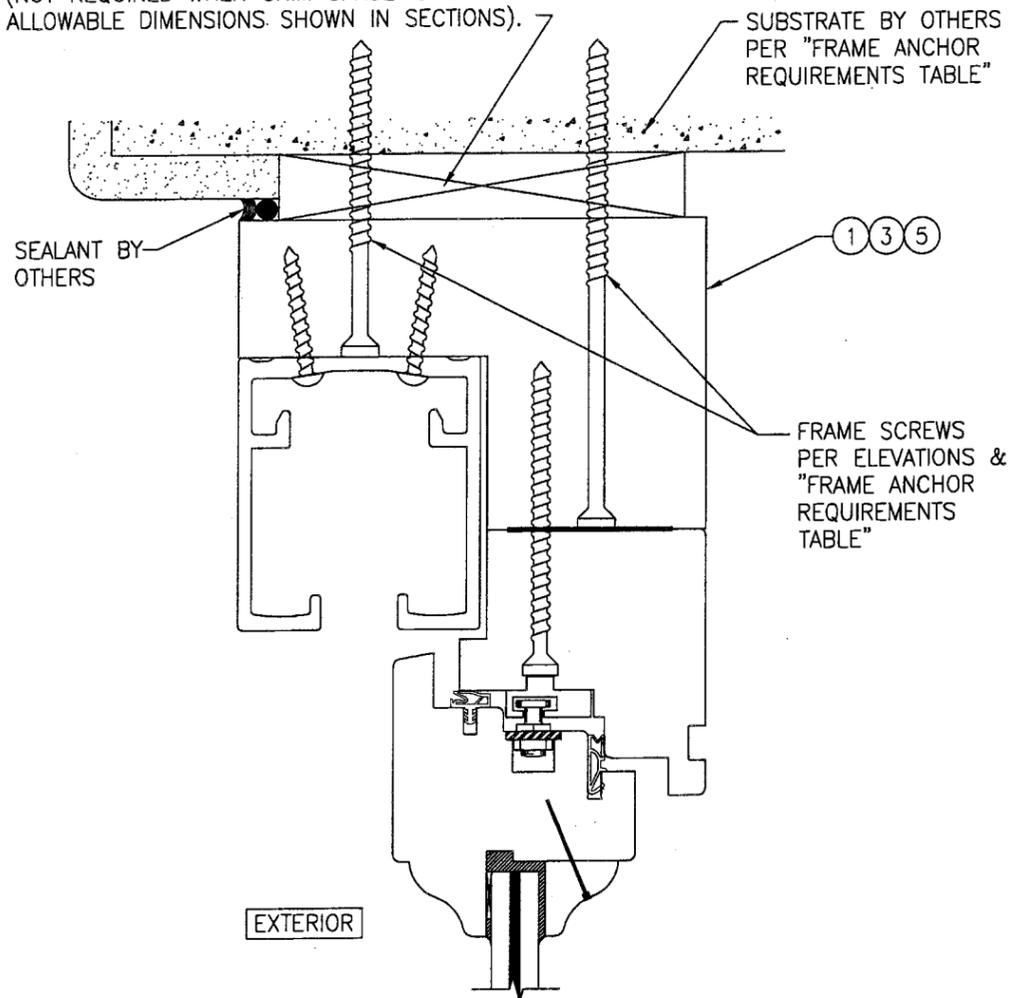
Approved as complying with the
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Date 08/04/2010
NOA# 10-0408.15
Miami Dade Product Control
Division
By [Signature]



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PLOT: 1-2		DATE: 03/02/10	
DATE	BY	REVISION DESCRIPTION	NO.
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CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500	
CERTIFICATION JUL 01 2010		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1454		REV.	
SHEET NO. 6		OF 9	

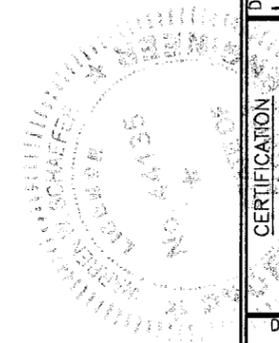


CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X BUCK TO BE MIN. 5 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).

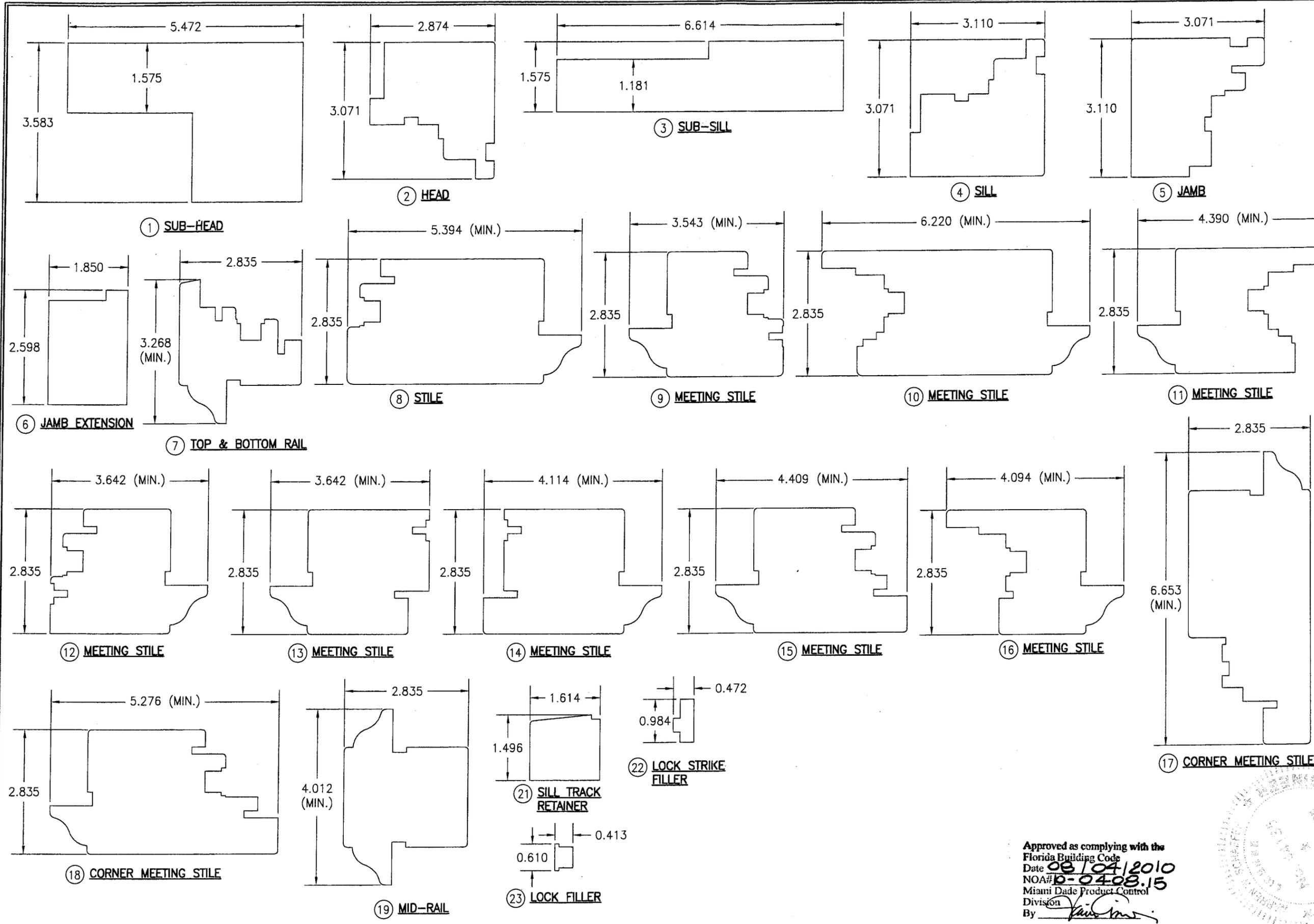


OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED SIMILAR)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

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By *[Signature]*



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MANUFACTURER: LUXBAU, LLC 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500				
CERTIFICATION: JUL 01 2010 WARREN W. SCHAEFER, P.E. P.E. NO. 44135				
DRAWING NO. 1454		REV.		
SHEET NO. 7		OF 9		



NO.	REVISION DESCRIPTION	DATE	BY	CHECKED BY:
1-2				W.R.M.
				W.S.
				DATE:
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DRAWING NO. 1454		REV.		
SHEET NO. 8		OF 9		

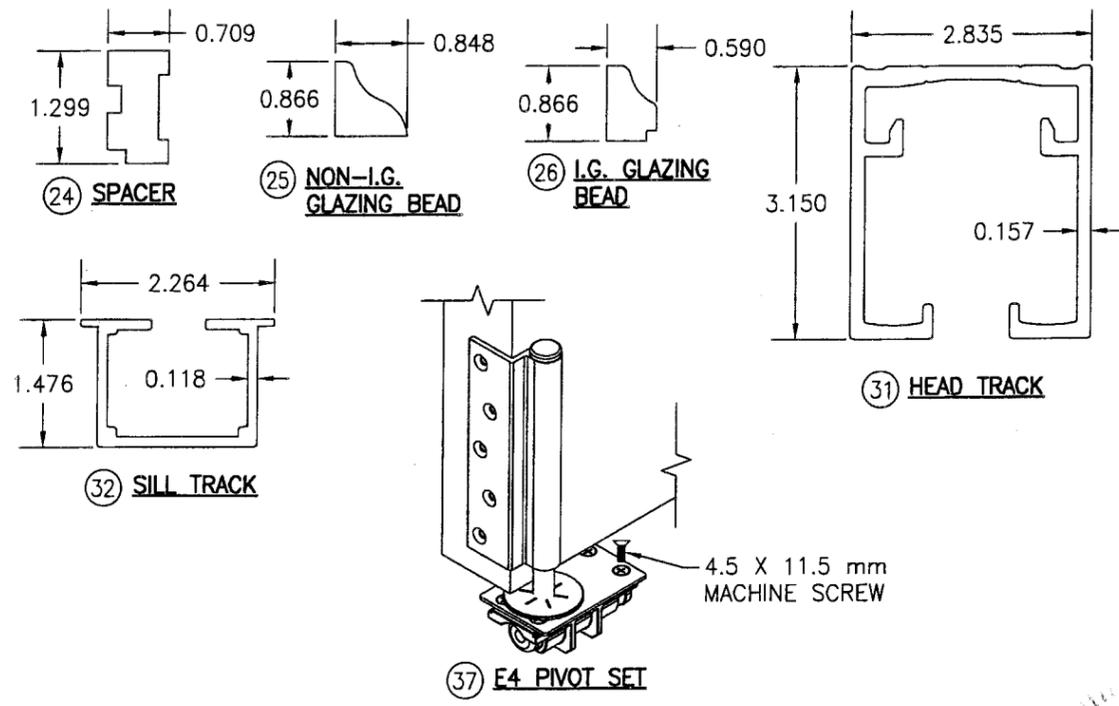
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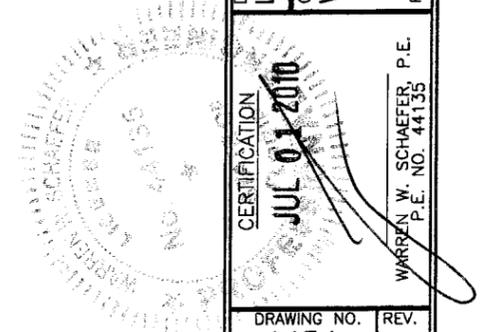
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	SUB-HEAD	WOOD
2	HEAD	WOOD
3	SUB-SILL	WOOD
4	SILL	WOOD
5	JAMB	WOOD
6	JAMB EXTENSION	WOOD
7	TOP & BOTTOM RAIL	WOOD
8	STILE	WOOD
9	MEETING STILE	WOOD
10	MEETING STILE	WOOD
11	MEETING STILE	WOOD
12	MEETING STILE	WOOD
13	MEETING STILE	WOOD
14	MEETING STILE	WOOD
15	MEETING STILE	WOOD
16	MEETING STILE	WOOD
17	CORNER MEETING STILE	WOOD
18	CORNER MEETING STILE	WOOD
19	MID-RAIL	WOOD
21	SILL TRACK RETAINER	WOOD
22	LOCK STRIKE FILLER	WOOD
23	LOCK FILLER	WOOD
24	SPACER	WOOD
25	NON-I.G. GLAZING BEAD	WOOD
26	I.G. GLAZING BEAD	WOOD
31	HEAD TRACK	6063-T5 ALUMINUM
32	SILL TRACK	6063-T5 ALUMINUM
HARDWARE		
37	E4 PIVOT SET	CENTOR AUSTRALIA
38	E4 OFFSET CARRIER SET	CENTOR AUSTRALIA
39	E4 INTERMEDIATE SET	CENTOR AUSTRALIA
40	E4 WALL PIVOT SET	CENTOR AUSTRALIA
41	E4 HINGE SET	CENTOR AUSTRALIA
42	MULTI-POINT LOCK	SIEGENIA, 3/4M5
43	HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM
SEALS & SEALANTS		
47	WEATHERSTRIP	DEVENTER, S 6577A
48	WEATHERSTRIP	DEVENTER, SV-12
49	WEATHERSTRIP	DEVENTER, S 6544
50	WEATHERSTRIP	KILLIAN HARDWARE COMPANY, V SHAPED
51	GLAZING SHIM	1/16" X 9/16" NEOPRENE WITHIN 1" FROM CORNERS 8" O.C.

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
FASTENERS		
54	NO. 10 X 1 1/2" S.S. P.H. WOOD SCREW	WITHIN 4 1/2", 12 1/2" 20 1/2" FROM CORNERS & 16" MAX. O.C.
55	NO. 12 X 3" S.S. WOOD SCREW	WITHIN 6" FROM CORNERS & A TOTAL OF 4 CLUSTERED 3" & 6" FROM EACH MEETING STILE CENTERLINE
57	NO. 10 X 2 1/2" S.S. WOOD SCREW	WITHIN 3" FROM CORNERS & 16" MAX. O.C.
58	23 GA. X 1" FINISH NAIL	WITHIN 3" FROM CORNERS & 16" MAX. O.C.
59	NO 10 X 1 1/2" S.S. WOOD SCREW	5 PER HINGE INTO PANEL 2 PER HINGE INTO JAMB
60	Ø5/8" X 2 3/4" WOOD DOWEL	WITHIN 5 1/2" FROM CORNERS & 11 1/4" MAX. O.C.
61	NO 10 X 1 1/2" S.S. WOOD SCREW	5 PER HINGE INTO PANEL
62	NO 10 X 1 1/2" S.S. WOOD SCREW	5 PER HINGE INTO PANEL
63	23 GA. X 1 1/4" FINISH NAIL	WITHIN 2" FROM CORNERS & 4" MAX. O.C.

NOTE: WOOD USED IN TESTING WAS MERBAU MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.62 AND A MODULUS OF ELASTICITY OF E = 2,600,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.62 AND MODULUS OF ELASTICITY OF 2,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY LUXBAU, LLC TO SELECT.



Approved as complying with the Florida Building Code
Date 08/04/2010
NOA# 10-0408, 15
Miami Dade Product Control
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By *[Signature]*



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