



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

Hartman Windows & Doors, LLC
531 Southern Blvd.
West Palm Beach, Fl. 33405

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "European" out folding Wood Doors

APPROVAL DOCUMENT: Drawing No **W12-58 Rev B**, titled "European" Wood Outswing Bi-Fold Doors" Sheets 1, 1.1, 1.2, 2, 3, 4, 5, 5.1, 6, 7, 7.1, 7.2 thru 12, 12.1, 12.2, 13 and 14 of 14, dated 11-20-12 and last revised on NOV 07, 2013, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 Section.

MISSILE IMPACT RATING: Large and Small Impact

Limitations:

1. See Door Type 1, Design Pressure and elevations in sheets 1, 1.1 & 1.2 and mounting details in sheets 2 thru 4. Door Type 1 is limited to sill type item # 3A. Also see locking points requirements in sheet 5.1.
2. See Door Type 2, Design Pressure and elevations in sheets 7, 7.1 & 7.2 and mounting details in sheets 8 thru 11. Door Type 2 can use all three types of sills, except sill item #32 is not rated for water resistance. Also see locking points requirements in sheets 12.1 & 12.2.
3. Continuous Angle mount for both Type 1 and Type 2 doors at Head /Jambs are limited to wood substrates.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



4/7/13

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W12-58 Rev B**, titled "European" Wood Outswing Bi-Fold Doors" Sheets 1 , 1.1, 1.2, 2, 3, 4, 5, 5.1, 6, 7, 7.1, 7.2 thru 12, 12.1, 12.2 , 13 and 14 of 14, dated 11-20-12 and last revised on NOV 07, 2013, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 installation diagram of Out folding/ In folding Wood doors marked-up by Fenestration Testing Lab, Inc., Test Report No. **FTL-6415 (10080)** dated 09/21/2012 and last revised on 07/25/13, signed & sealed by Jorge A. Naya, Jr. P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Al Farooq Corporation, dated 01/31/13, 10/28/13 and last revised on NOV 07, 2013, signed and sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **12-1231.10** issued to Eastman Chemical Company, (Former Solutia Inc.) for "Saflex color & clear interlayer", expiring on 05/21/16.

F. STATEMENTS

1. Statement letter of conformance to FBC 2010, prepared by Al Farooq Corporation, dated 12/28/12, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance statement, as part of the above referenced test report.
3. Addendum letter dated July 25, 2013, issued by FTL, signed by Ms. Iliana Sanchez.

G. OTHER

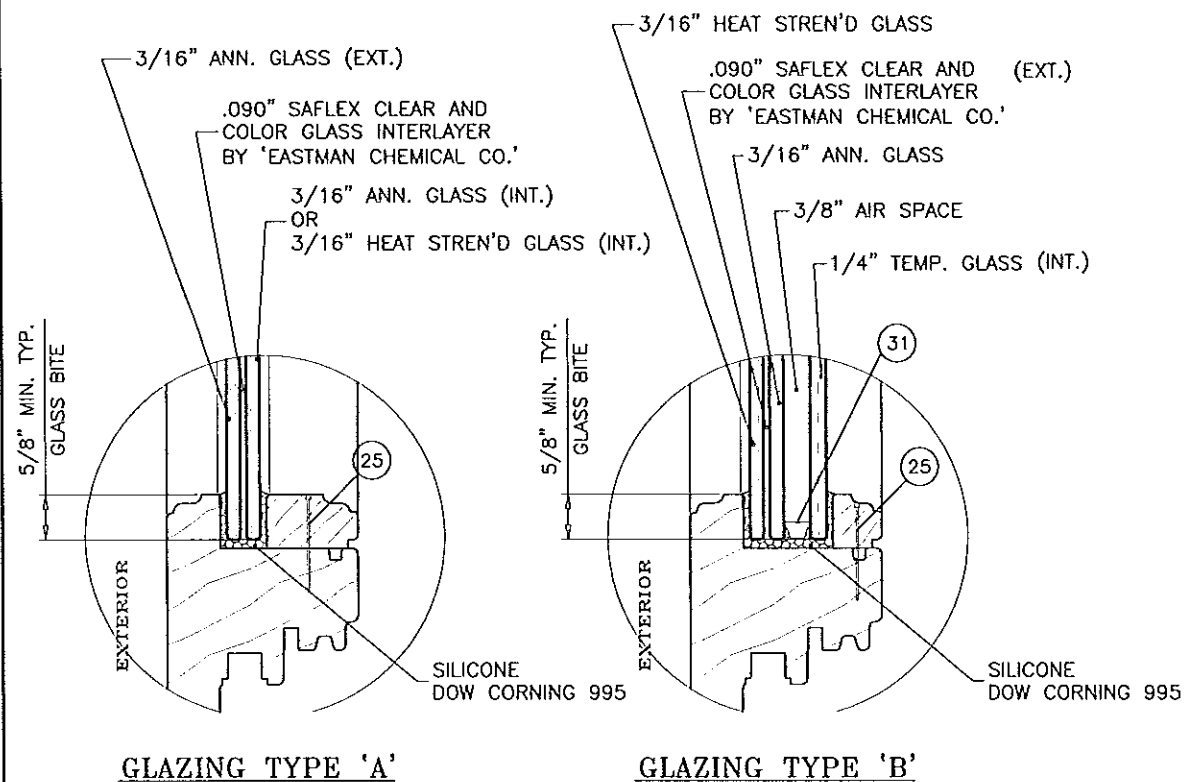
1. Test proposal dated 11/02/10 approved by BNC and RER e-mail dated 09/26/14.
2. Conditional approval subjected to near future 6-panels configured folding doors test.



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 13-0207.06

Expiration Date: November 14, 2018

Approval Date: November 14, 2013



GLAZING OPTIONS

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

EUROPEAN WOOD OUTSWING BI-FOLD GLASS DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

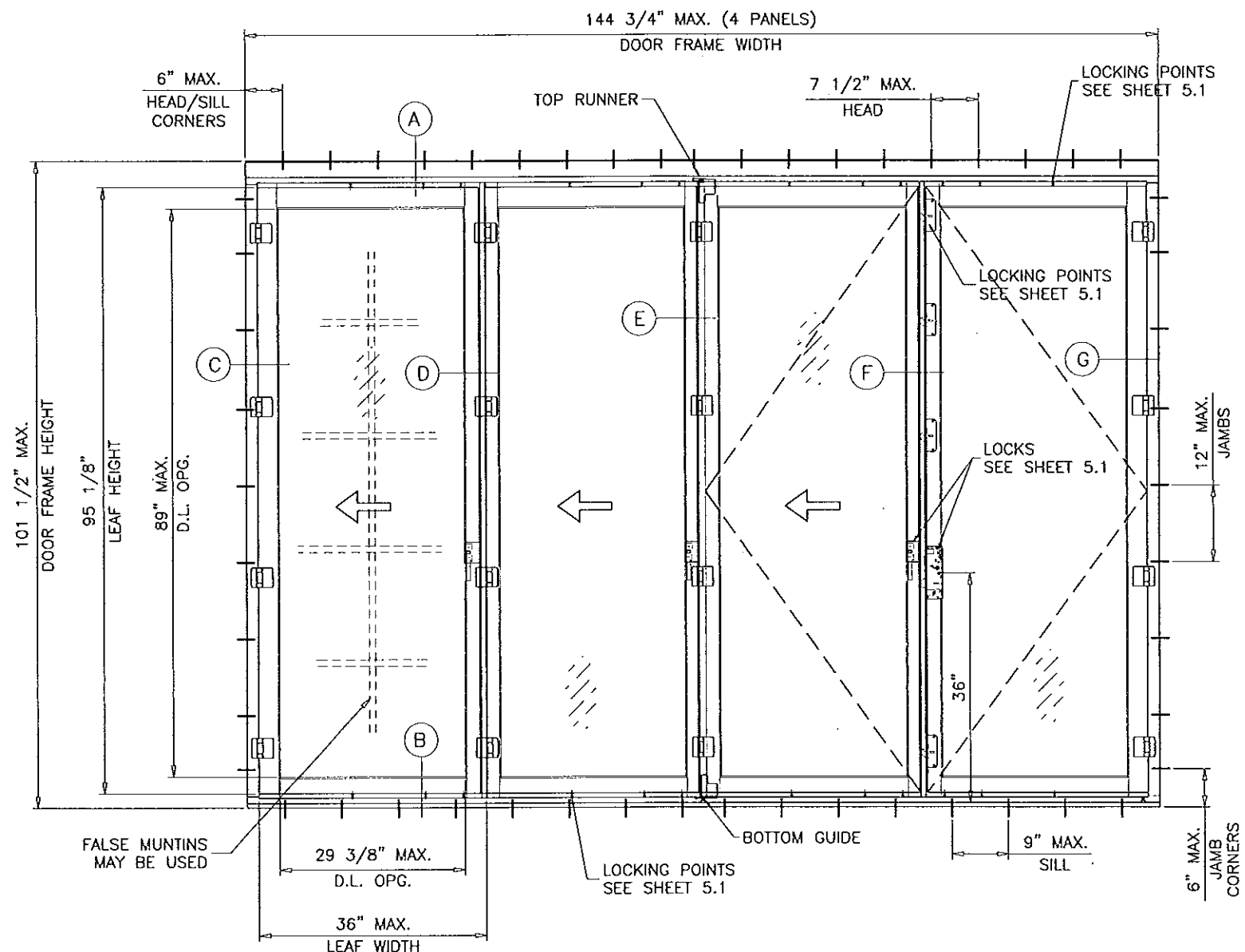
1BY OR 2BY WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE AND TO BE REVIEWED BY BLDG. OFFICIAL.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.



TYPICAL ELEVATION

DIRECT MOUNT SHOWN
SEE SHEETS 1.1, 1.2 AND 4 FOR OTHER MOUNTS

FOUR PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN. DOOR MAY HAVE ANY NUMBER OF PANELS PROVIDED STILE COMBINATIONS SHOWN IN THIS DRAWING ARE USED.

PANEL SIZE:

LEAF WIDTH = (DOOR FRAME WIDTH - 0.75")/4
LEAF HEIGHT = DOOR FRAME HEIGHT - 6.375"

DAYLITE OPENINGS:

DLO WIDTH = LEAF WIDTH - 6.750"
DLO HEIGHT = LEAF HEIGHT - 6.125"

Approved as complying with the
Florida Building Code
Date NOVEMBER 14, 2013
NOA# 13-0262-06
Miami Dade Product Control
By [Signature]

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
(FOR LEAF SIZE SHOWN OR SMALLER) - 80.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

DOOR TYPE 1

DOOR TYPE 1 CAN BE INSTALLED WITH ANY OF THE FOLLOWING OPTIONS

- OPTION #1: BY USING FASTENERS THRU DOOR FRAME INTO STRUCTURE
SEE ELEV. ABOVE FOR SPACING AND SHEETS 2 & 3 FOR DETAILS.
- OPTION #2: BY USING FASTENERS CONT. ALUMINUM ANGLE
SEE ELEV. ON SHEET 1.1 FOR SPACING AND SHEET 4 FOR DETAILS.
- OPTION #3: BY USING FASTENERS THRU STRAP CLIPS
SEE ELEV. ON SHEET 1.2 FOR SPACING AND SHEET 4 FOR DETAILS.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 07 2013

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W12-58HWD

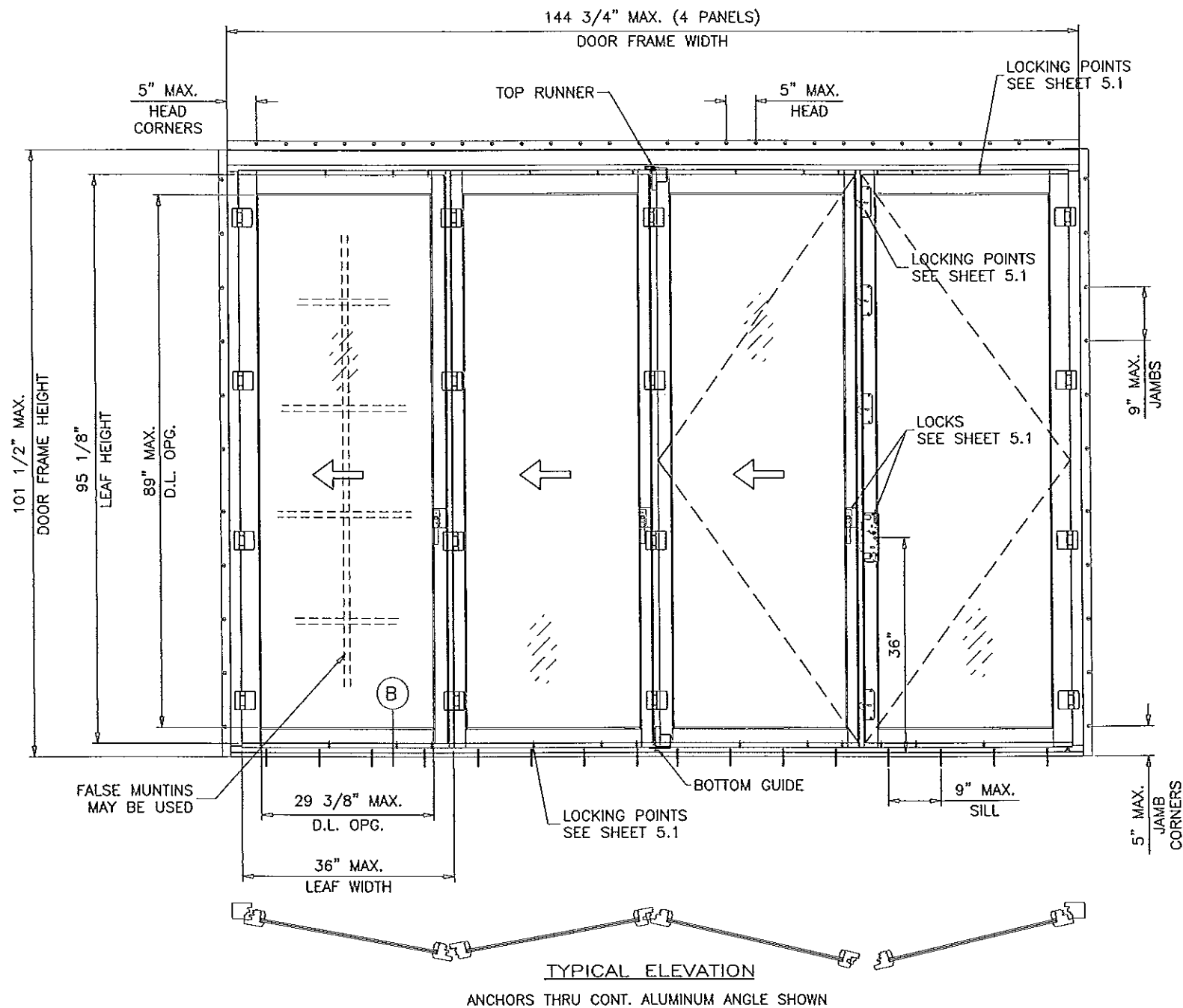
EUROPEAN WOOD OUTSWING BI-FOLD DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL (561) 296-9600 FAX (561) 296-9601

revisions:	no	date	by	description
	A	4.25.13	REV. PER	COMMENTS
	B	9.23.13	REV. PER	COMMENTS

date: 11-20-12	scale: 1/2"=1'-0"	dr. by: HAMID	chk. by:
----------------	-------------------	---------------	----------

drawing no.
W12-58

sheet 1 of 14



Approved as complying with the
Florida Building Code
Date: 11/14/13
NOA# 13-0207-05
Product Control
By: [Signature]

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
(FOR LEAF SIZE SHOWN OR SMALLER) - 80.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538
NOV 8 2013

DOOR TYPE 1

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W12-58HWD

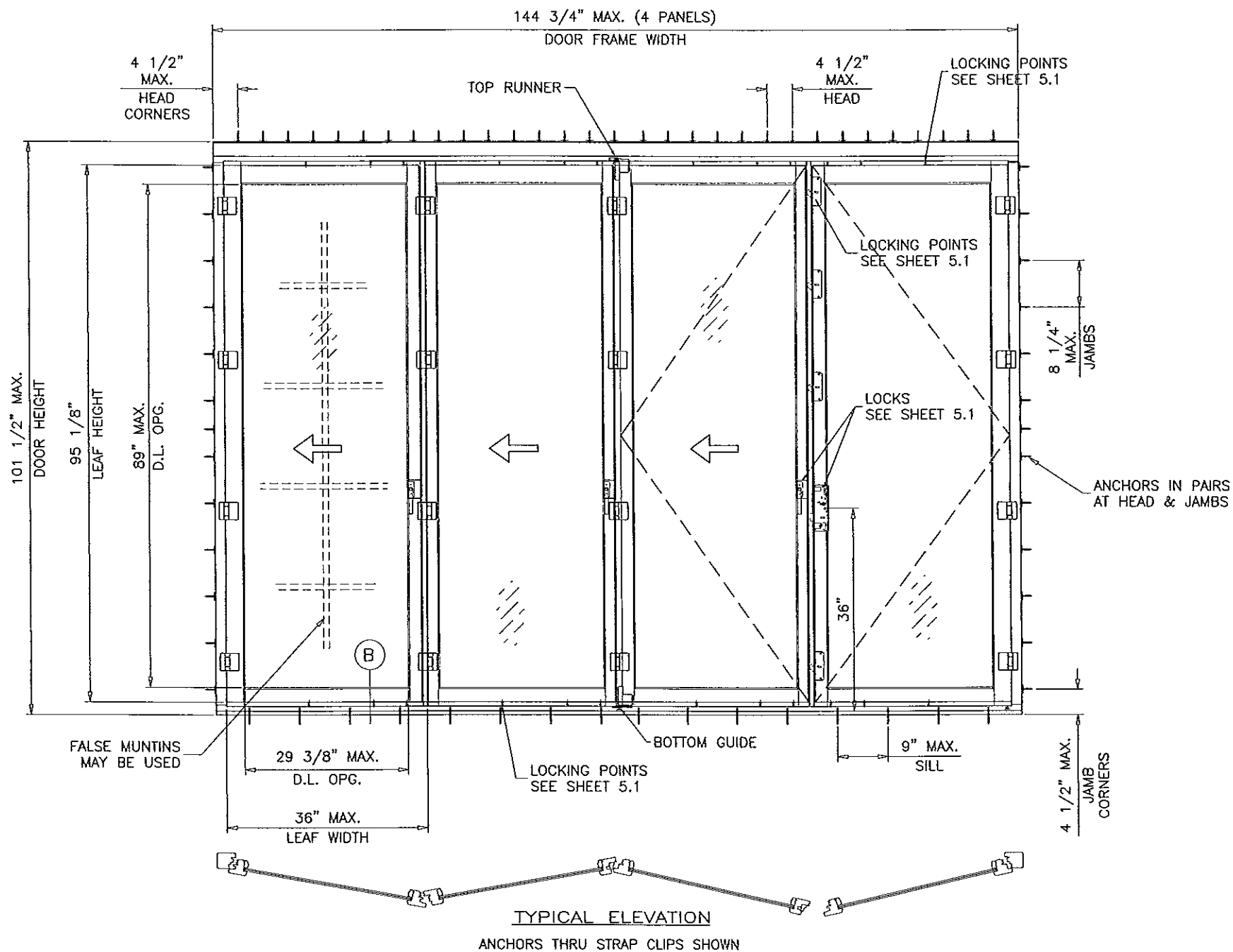
af c

EUROPEAN WOOD OUTSWING BI-FOLD DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

date: 11-20-12
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

revisions:
no. date by description
B 9.23.13 REV. PER RER COMMENTS

drawing no.
W12-58
sheet 1.1 of 14



Approved as complying with the
Florida Building Code
Date 4/14/13
NOAA 13-0207-06
Miami Date Product Control
By Ismael L. Chan

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
(FOR LEAF SIZE SHOWN OR SMALLER) - 80.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 8 2013

DOOR TYPE 1

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W12-58HWD

afC

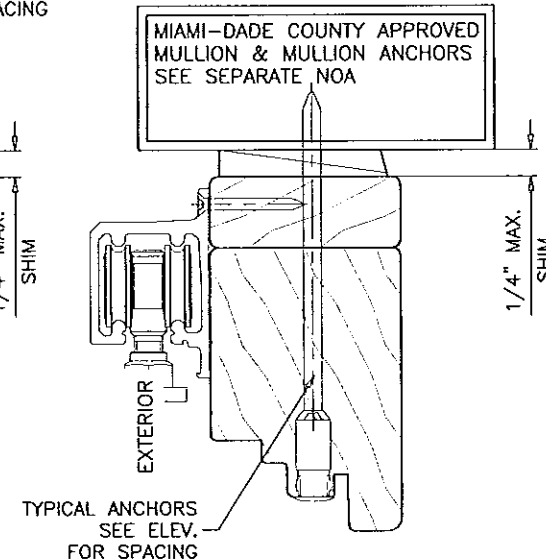
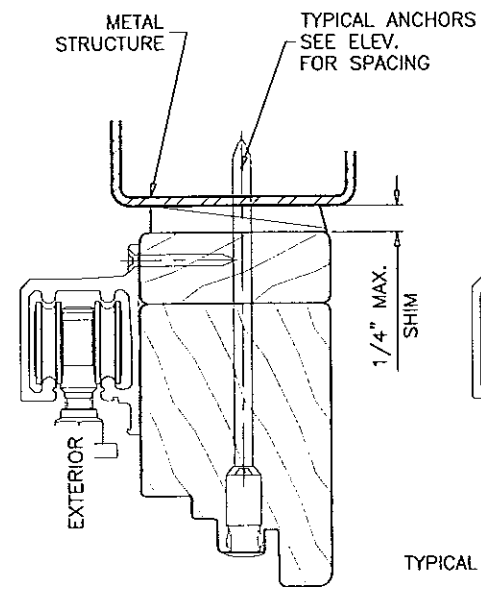
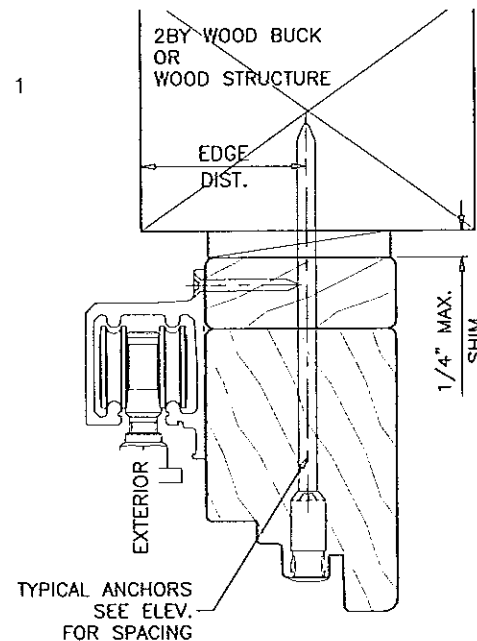
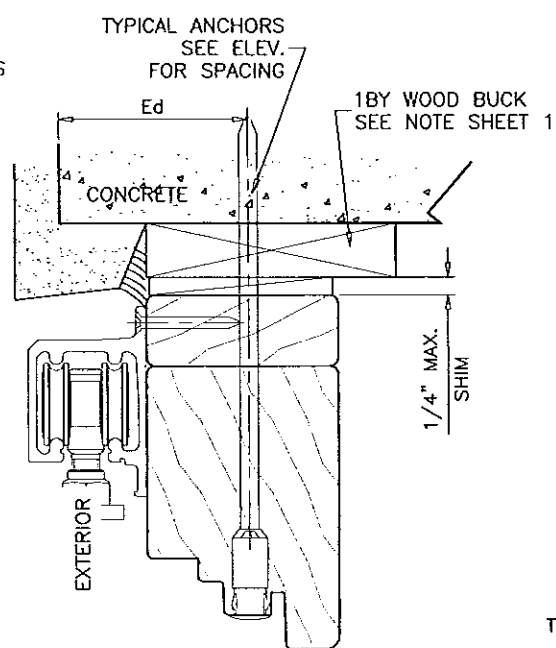
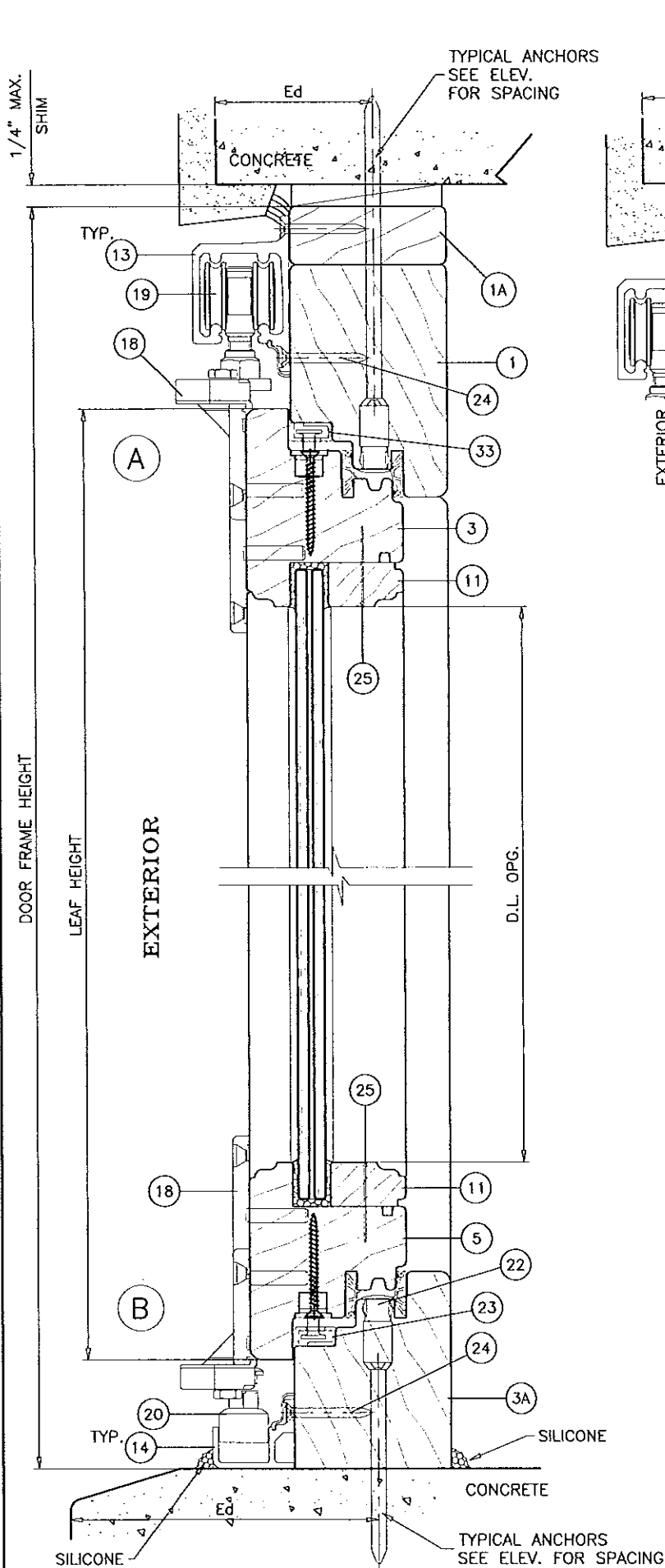
EUROPEAN WOOD OUTSWING BI-FOLD DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

revisions:

no	date	by	description
B	9.23.13		REV. PER RER COMMENTS

date: 11-20-12
scale: 1/2" = 1'-0"
dr. by: HAMID
chk. by:

drawing no.
W12-58
sheet 1.2 of 14



WOOD BUCKS NOT BY HARTMAN WINDOWS, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

ANCHORS THRU DOOR FRAME

1/4" DIA. ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES

1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

DIRECTLY INTO CONC. OR MASONRY

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

#14 SELF DRILLING SCREWS (GRADE 5 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")

INTO METAL STRUCTURES

STEEL : 12 GA. MIN. ($F_y = 36$ KSI MIN.)

ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.

INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

ANCHORS CL TO CL DISTANCE

INTO CONCRETE AND MASONRY = 2" MIN.

INTO WOOD STRUCTURE = 3/4" MIN. (UNLESS SPECIFIED)

CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

STRAP CLIP AND CONT. ALUM ANGLE INSTALLATION OPTIONS. SEE SHEET 4 FOR DETAILS.

Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-2207.05
Miami Dade Product Control
By [Signature]

DOOR TYPE 1

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 8 7 2013

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANLW12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL (561) 296-9600 FAX (561) 296-9601

revisions:	no.	date	by	description
	A	4.25.13		REV. PER COMMENTS
	B	9.23.13		REV. PER COMMENTS

date:	11-20-12
scale:	3/8" = 1"
dr. by:	HAMID
chk. by:	

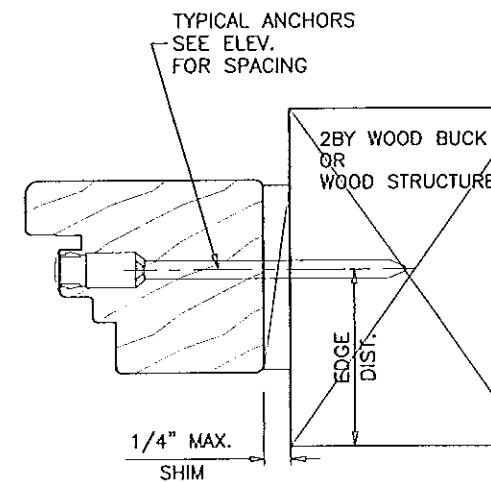
drawing no.
W12-58

sheet 2 of 14

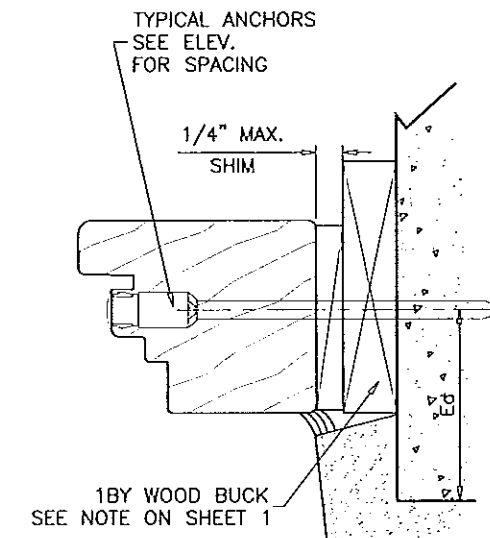
APPR'D FOR WATER RESISTANCE (ONLY DOOR TYPE 1)

FOR DOOR TYPE 1 FRAME INSTALLATION WITH CONT. ALUM
ANGLE OR STRAP CLIPS,
SEE ELEV. ON SHEET 1.1 & 1.2 FOR SPACING
AND SHEET 4 FOR DETAILS.

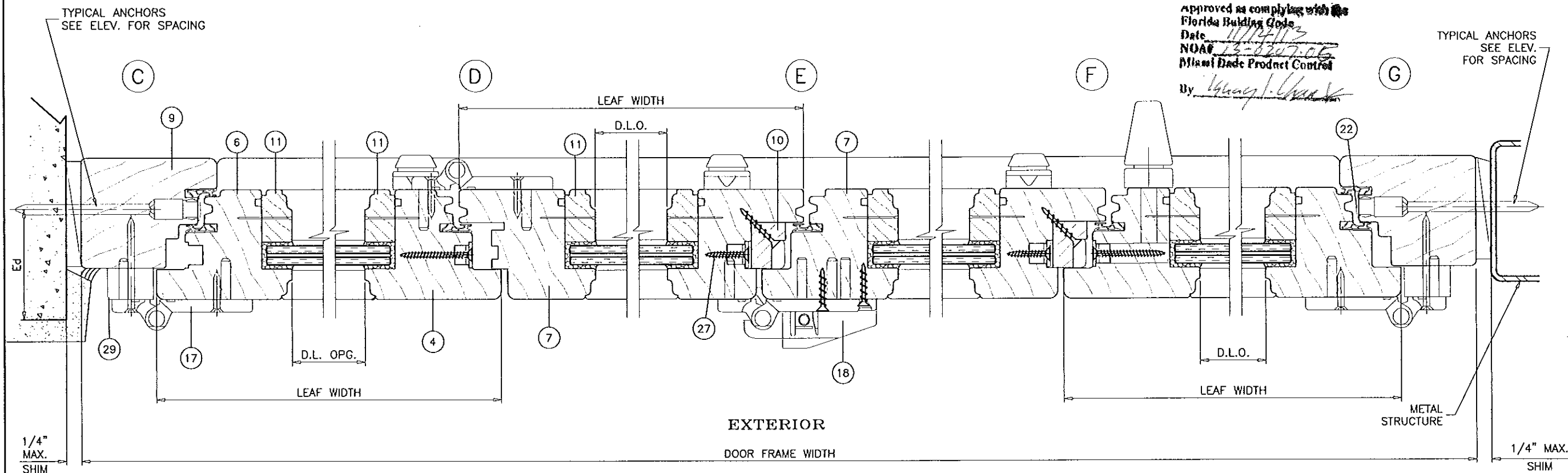
DIRECT MOUNT OPTION SHOWN



EXTERIOR



EXTERIOR



EXTERIOR

DOOR FRAME WIDTH

Approved as complying with the
Florida Building Code
Date: 11/14/13
NOA# 13-0207-06
Miami Dade Product Control
By: [Signature]

DOOR TYPE 1

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 0 2 2013

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W12-58HWD

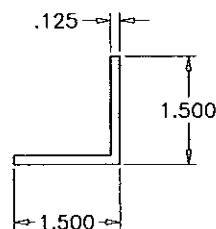
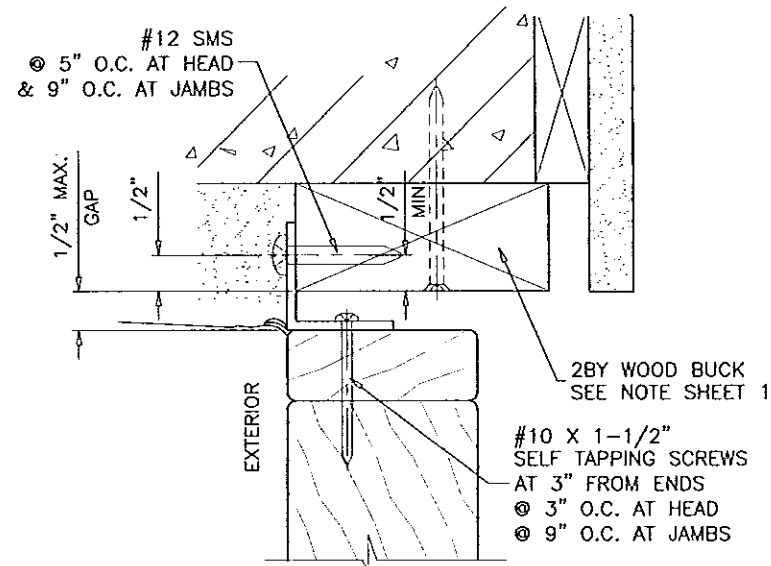
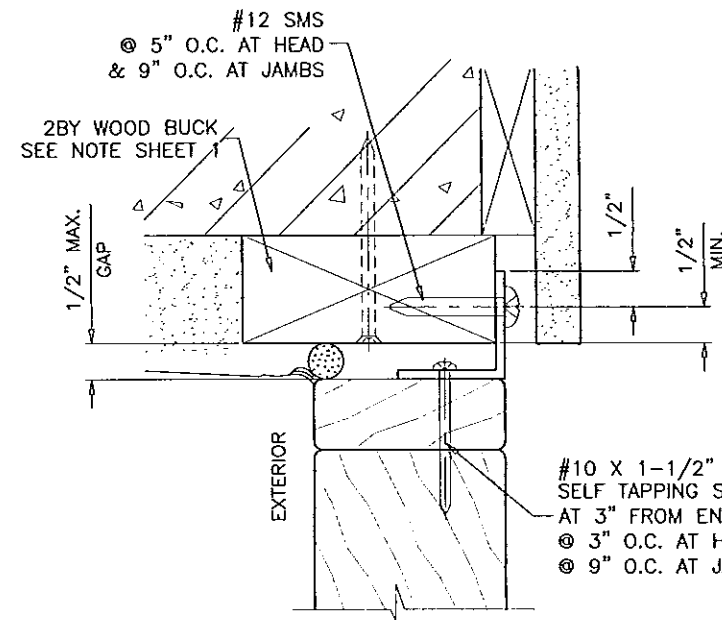
EUROPEAN WOOD OUTSWING BI-FOLD DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL (561) 296-9600 FAX (561) 296-9601

no	date	by	description
A	4.25.13		REV. PER RER COMMENTS
B	9.23.13		NO CHANGE THIS SHEET

date: 11-20-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-58

sheet 3 of 14



ALUMINUM ANGLE CONTINUOUS
(6063-T5)

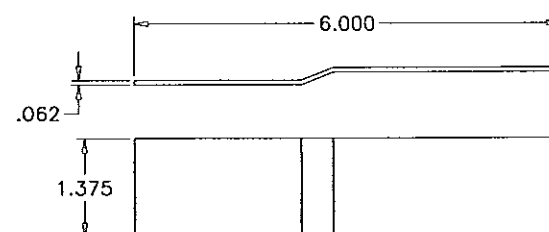
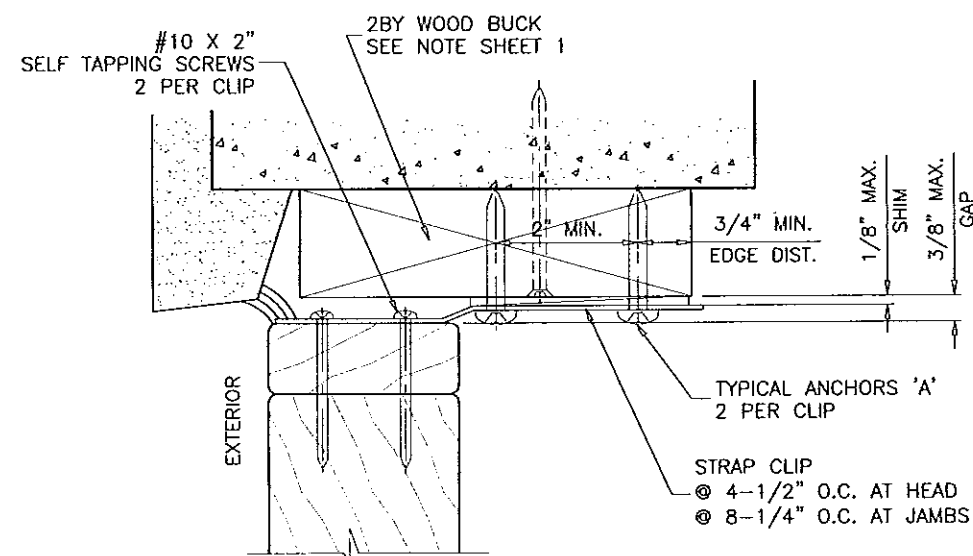
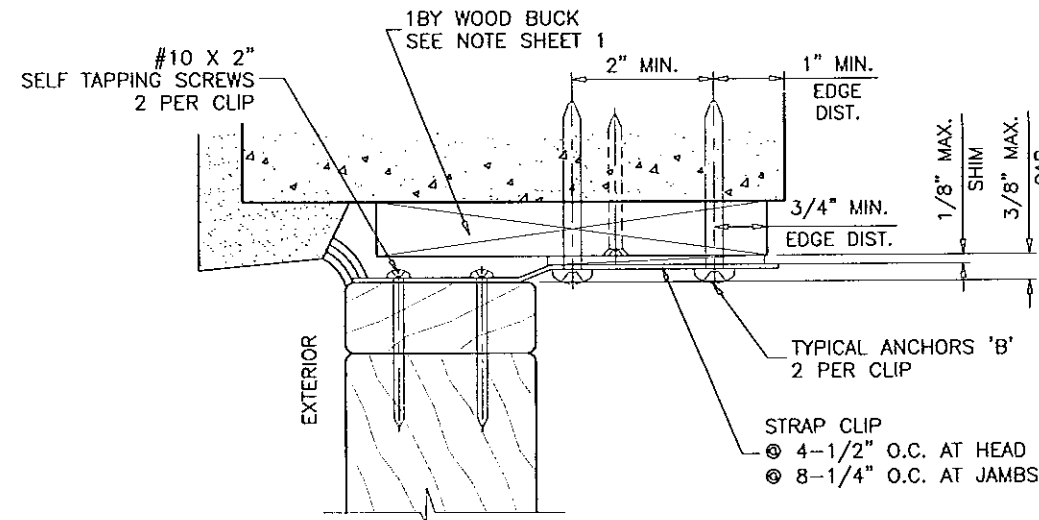
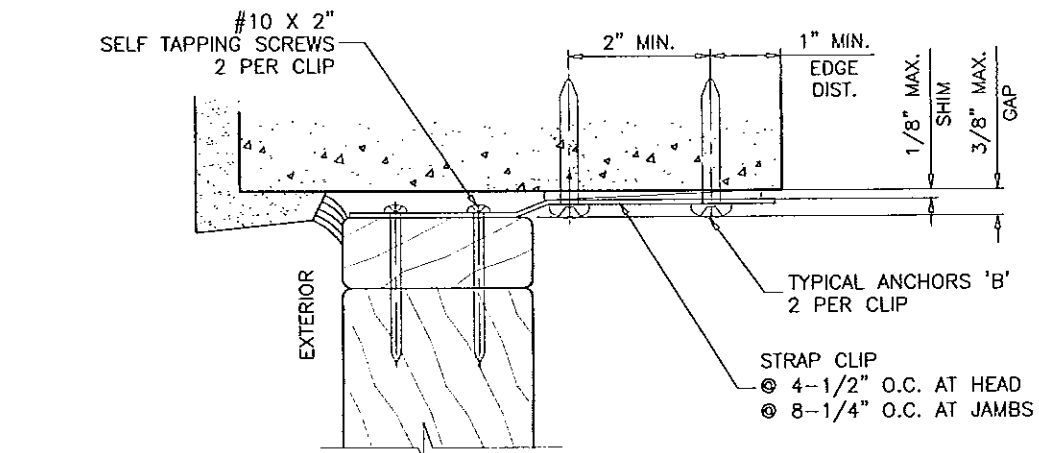
TYPICAL ANCHORS

ANCHORS THRU ALUMINUM ANGLE @ HEAD/JAMBS

#12 SMS

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-1/2\"

FOR SILL ANCHORS INTO CONC. SEE DETAIL 'B' ON SHEET 2



STRAP CLIP
Fy = 36 KSI
Fu = 58 KSI
Fes = 73.7 KSI

Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-0207-06
Miami Code Product Control
By [Signature]

TYPICAL ANCHORS

ANCHORS THRU STRAP CLIPS @ HEAD/JAMBS

A: #10 SMS

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-1/2\"

B: 3/16\"

THRU 18Y BUCKS INTO CONC. OR MASONRY
1-1/4\"

DIRECTLY INTO CONC. OR MASONRY
1-1/4\"

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 1\"

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

FOR SILL ANCHORS INTO CONC. SEE DETAIL 'B' ON SHEET 2

DOOR TYPE 1

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 07 2013

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W12-58HWD

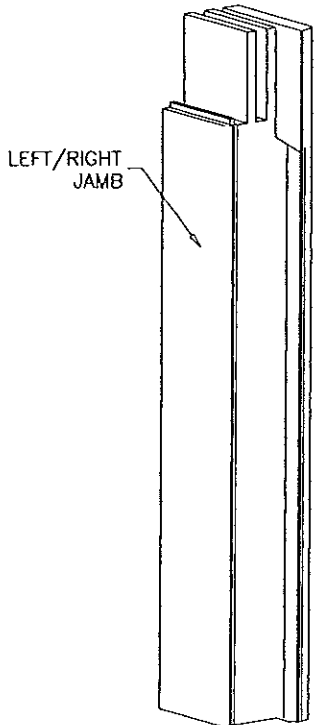
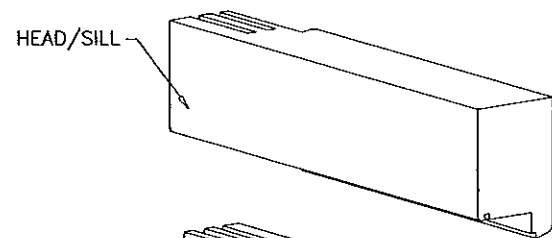
EUROPEAN WOOD OUTSWING BI-FOLD DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL (561) 296-9600 FAX (561) 296-9601

NO	DATE	BY	DESCRIPTION
A	4.25.13		REV. PER COMMENTS
B	9.23.13		REV. PER COMMENTS

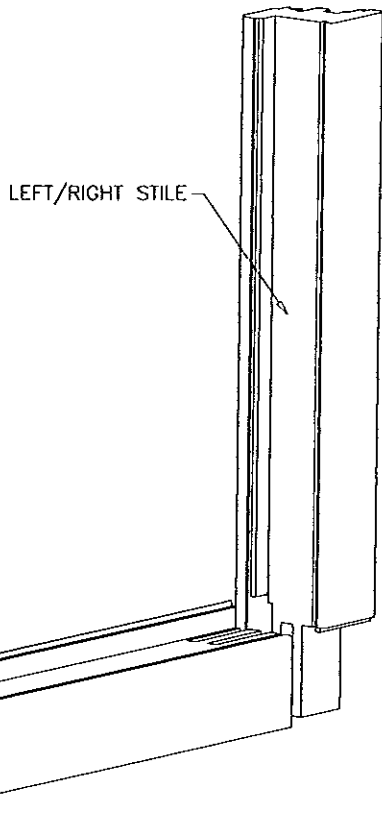
date: 11-20-12
scale: 3/8\"

drawing no.
W12-58

sheet 4 of 14



JAMB TOP/BOTTOM CORNER



TOP/BOTTOM RAIL

MULTI-FORK MORTISE AND TENON JOINERY
SECURED
WITH NATIONAL CASEINE OR TITE BOND II
WATERPROOF GLUE

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	1/ DOOR	FRAME HEAD	WOOD	MAHOGANY
1A	-	1/ DOOR	ALT. FRAME HEAD	WOOD	MAHOGANY
2	-	1/ DOOR	FRAME SILL (WATER RATED)	WOOD	MAHOGANY
3	-	1/ PANEL	TOP RAIL	WOOD	MAHOGANY
4	-	1/ PANEL	STILE W/ LOCK	WOOD	MAHOGANY
5	-	1/ PANEL	BOTTOM RAIL	WOOD	MAHOGANY
6	-	1/ PANEL	STILE	WOOD	MAHOGANY
7	-	1/ PANEL	INACTIVE STILE W/ LOCK	WOOD	MAHOGANY
8	-	1/ PANEL	INACTIVE STILE	WOOD	MAHOGANY
9	-	1/ DOOR	FRAME JAMB (SIDE)	WOOD	MAHOGANY
10	-	1/ PANEL	LOCK COVER	WOOD	MAHOGANY
11	-	AS REQD.	GLASS STOP (LAM GLASS)	WOOD	MAHOGANY
12	-	AS REQD.	GLASS STOP (LAM INSUL GLASS)	WOOD	MAHOGANY
13	-	1	EXTRUDED RUNNING RAIL	ALUMINUM	
14	-	1	EXTRUDED GUIDING RAIL	ALUMINUM	
15	-	AS REQD.	FASTENER	ALUMINUM	1/2" X 1/2" X 1/8" ANGLE
16	-	AS REQD.	FASTENER	GALVANIZED	3/8" X 5' STRAP
17	-	AS REQD.	ADJUSTABLE HINGE	-	G.U. OR SIEGENIA
18	-	AS REQD.	CORNER BEARING	-	-
19	-	AS REQD.	ROLLER	-	-
20	-	AS REQD.	GUIDE ROLLER	-	-
21	9-24571	AS REQD.	EPDM GASKET	VINLY	GU-OLIMPIA-AGB
22	-	AS REQD.	SCREW CAP	-	-
23	-	AS REQD.	UNIVERSAL KEEPER	-	-
24	-	AS REQD.	#8 X 1-1/2" SCREW	-	6" FROM END & 8" O.C.
25	-	AS REQD.	18 GA. X 1-1/2" BRAD NAILS	-	3" FROM END & 8" O.C.
26	-	AS REQD.	#8 X 2-1/4" SCREWS	-	2" FROM ENDS & 12" O.C.
27	-	AS REQD.	#8 X 1-1/4" SCREWS	-	6" FROM ENDS & 8" O.C.
28	V992	AS REQD.	NORTON NORSEAL TAPE	-	TOTAL PLASTICS
29	-	AS REQD.	SUPPORT PLATE	-	-
31	-	AS REQD.	SPACER	ST. STEEL	CARDINAL IG

TYPICAL WOOD - AFRICAN MAHOGANY

SPECIFIC GRAVITY = 0.45 MIN.
MODULUS OF ELASTICITY E = 1,340,000 PSI

Approved as complying with
Florida Building Code
Date 11/14/13
NOA# 13-0207-06
Miami Code Project Control
By [Signature]

DOOR TYPE 1

Bi-FOLD HARDWARE:

HINGES: TYPE 1 BY 'G.U.' TYPE 2 BY 'SIEGENIA'.

SURFACE MOUNT METALLIC KNUCKLE HINGES AT FRAME JAMBS
12-1/4", 31-1/4", 69-1/4" AND 88-1/4" FROM BOTTOM
FASTENED TO
FRAME WITH (3) #10 X 3" FH WOOD SCREWS
LEAF WITH (6) #10 X 1-3/4" FH SMS

HINGES AT CENTER LEAF 10", 29", 67" AND 86" FROM BOTTOM
FASTENED WITH (8) #10 X 1-3/4" FH SMS

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 27 2013

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP - ANL W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL (561) 296-9600 FAX (561) 296-9601

no	date	by	description
A	4.25.13	REV.	PER REV COMMENTS
B	9.23.13	REV.	PER REV COMMENTS

date: 11-20-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-58
sheet 5 of 14

Bi-FOLD HARDWARE:

LOCKS: TYPE 1 BY 'G.U.' TYPE 2 BY 'KFV'.

SWINGING LEAF:

FLUSH MOUNT METALLIC MULTI POINT LOCK SYSTEM WITH
LEVER TYPE ACTIVATING HANDLE ON INTERIOR OF MTG. STILE
AT 36" FROM BOTTOM.
FASTENED WITH (35) #8 X 1-1/2" FH SMS
ENGAGING SIMULTANEOUSLY
(3) LOCKING POINTS AT HEAD
(3) LOCKING POINTS AT SILL
(5) LOCKING POINTS AT MTG. STILE.

SWINGING & FOLDING LEAF:

FLUSH MOUNT METALLIC MULTI POINT LOCK SYSTEM WITH
FLUSH TYPE ACTIVATING HANDLE ON INTERIOR OF MTG. STILE
AT 36" FROM BOTTOM.
FASTENED WITH (35) #8 X 1-1/2" FH SMS
ENGAGING SIMULTANEOUSLY
(3) LOCKING POINTS AT HEAD
(3) LOCKING POINTS AT SILL

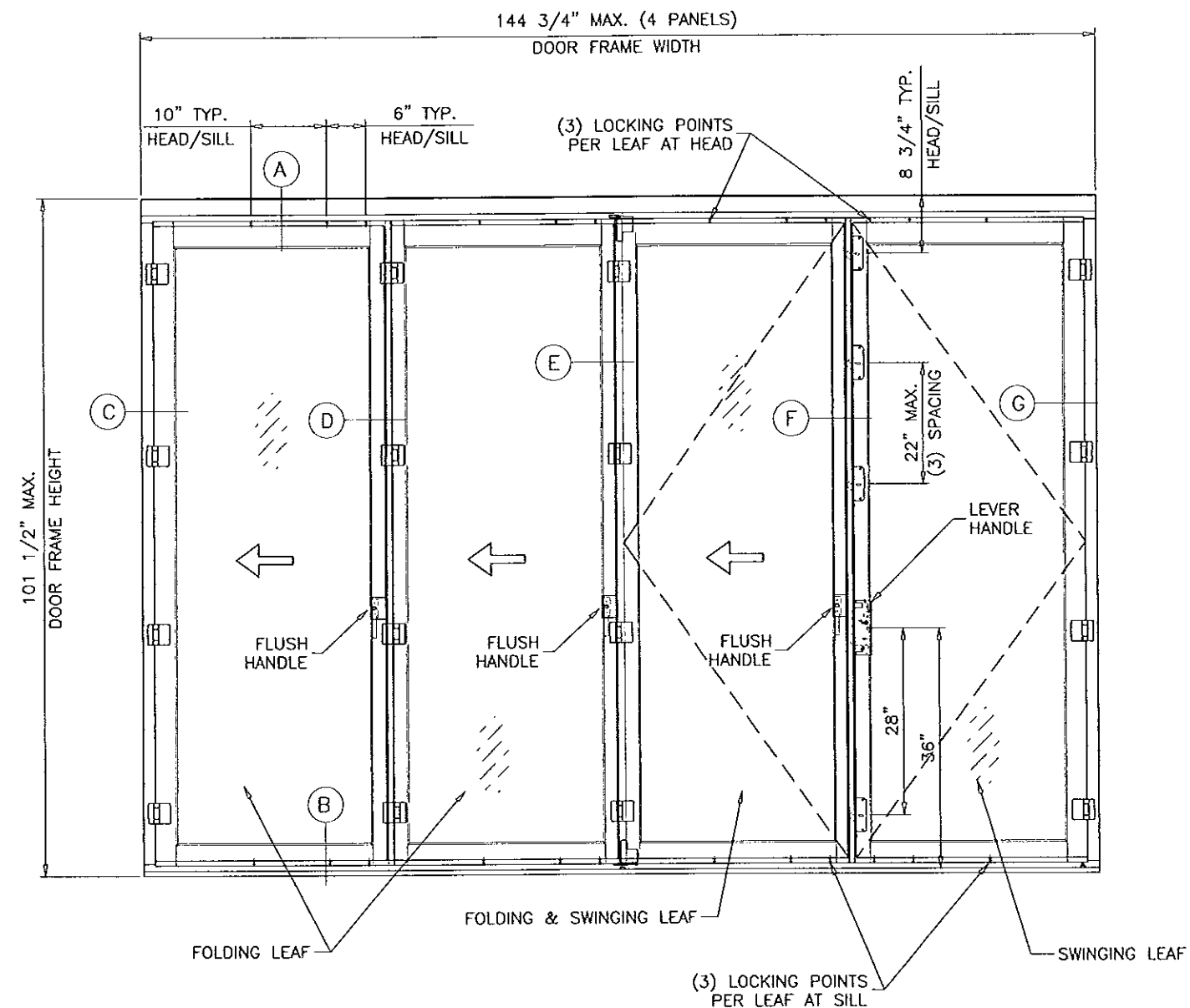
SURFACE MOUNT METALLIC KEEPERS FACING LOCKING
POINTS AT MTG. STILE
EACH KEEPER FASTENED WITH
(2) #8 X 3/4" FH SMS

FOLDING LEAF:

FLUSH MOUNT METALLIC MULTI POINT LOCK SYSTEM WITH
FLUSH TYPE ACTIVATING HANDLE ON INTERIOR OF MTG. STILE
AT 36" FROM BOTTOM.
FASTENED WITH (35) #8 X 1-1/2" FH SMS
ENGAGING SIMULTANEOUSLY
(3) LOCKING POINTS AT HEAD
(3) LOCKING POINTS AT SILL

SWINGING, SWINGING & FOLDING, FOLDING LEAFS:

SURFACE MOUNT METALLIC KEEPERS FACING LOCKING
POINTS AT HEAD AND SILL
EACH KEEPER FASTENED WITH
(2) #10 X 1-3/4" FH SMS



Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-0002-05
Miami Dade Product Control
By: [Signature]

DOOR TYPE 1

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 01 2013

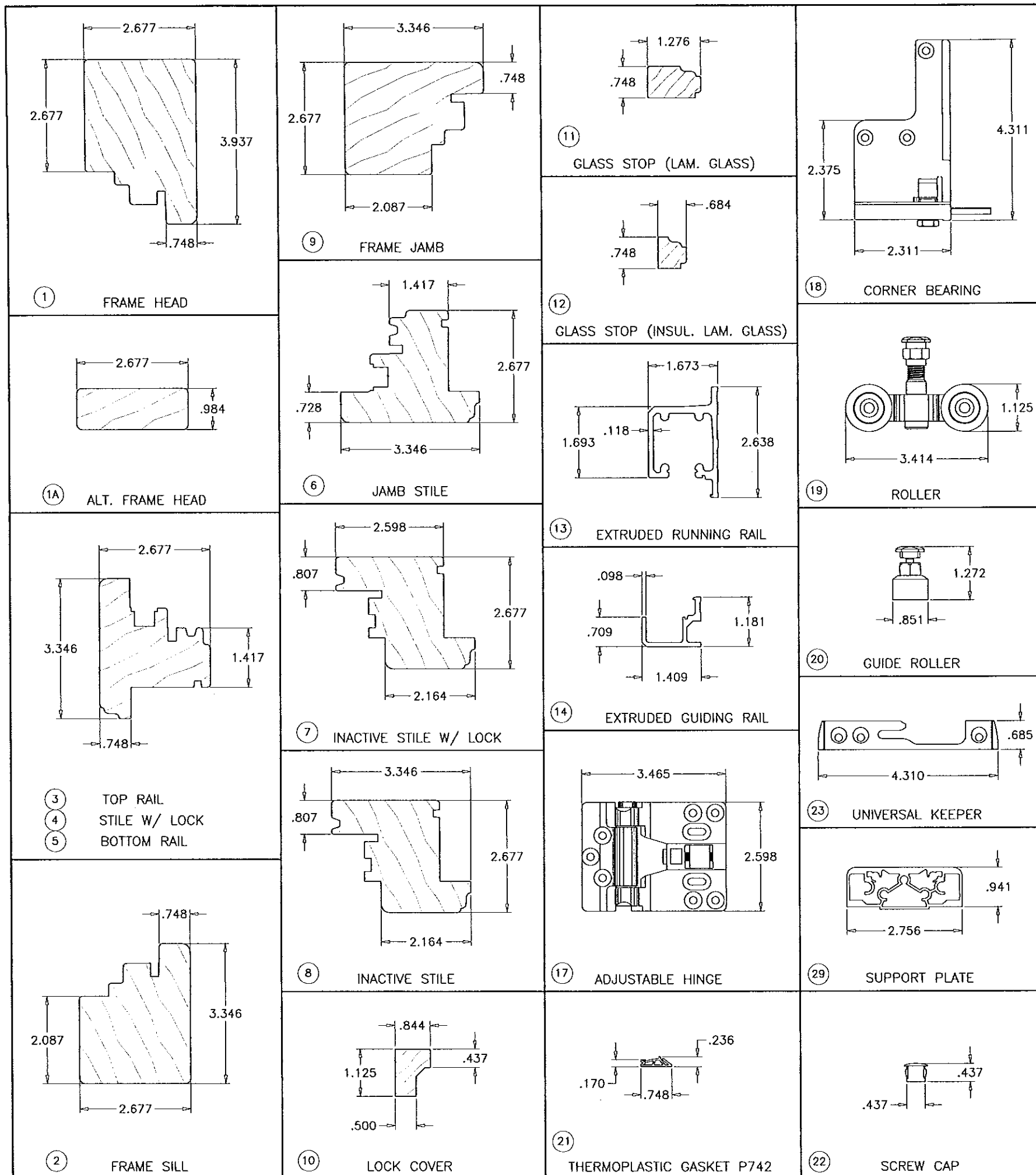
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-AN\W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

revisions:		no	date	by	description
		B	9.23.13		REV. PER COMMENTS

date: 11-20-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-58
sheet 5.1 of 14



Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 9 2013

Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-0207-06
Miami Dade Product Control
By 156-971-642

DOOR TYPE 1

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W12-58-HWD

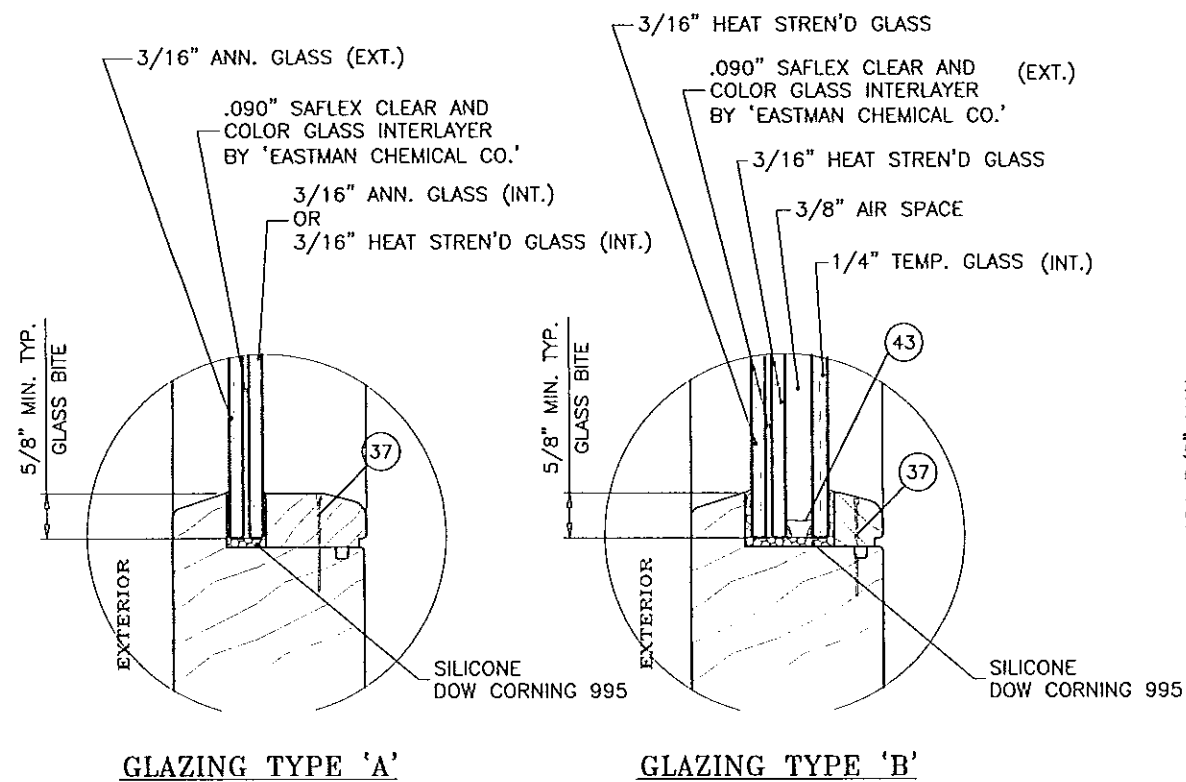
EUROPEAN WOOD OUTSWING BI-FOLD DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL (561) 296-9600 FAX (561) 296-9601

Revisions:		no	date	by	description
A	4.25.13				NO CHANGE THIS SHEET
B	9.23.13				NO CHANGE THIS SHEET

date: 11-20-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-58

sheet 6 of 14



GLAZING OPTIONS

PANEL SIZE:

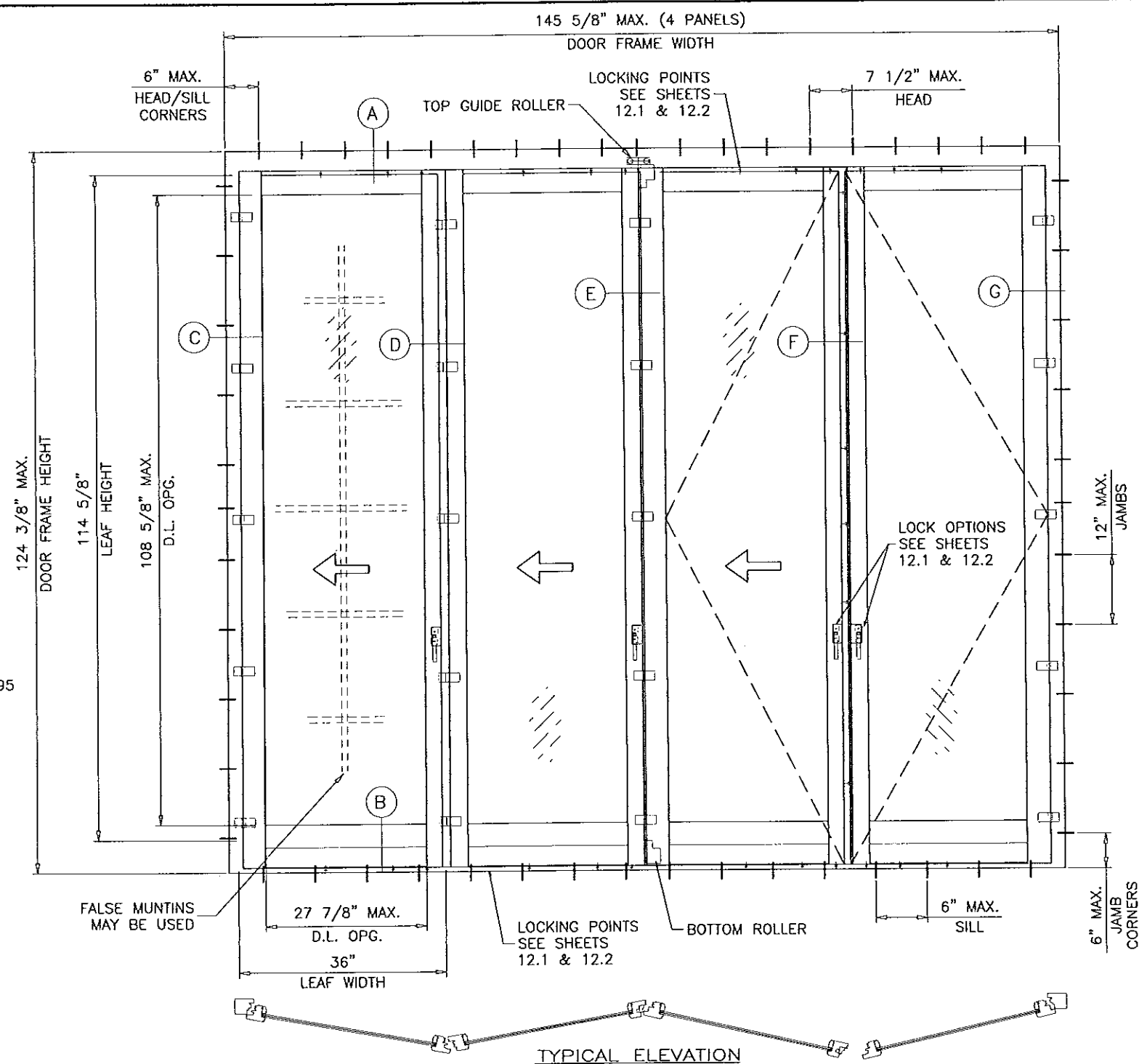
LEAF WIDTH = (DOOR FRAME WIDTH - 1.625")/4
LEAF HEIGHT = DOOR FRAME HEIGHT - 6.375"

DAYLITE OPENINGS:

DLO WIDTH = LEAF WIDTH - 6.750"
DLO HEIGHT = LEAF HEIGHT - 6.125"

DOOR TYPE 2 CAN BE INSTALLED WITH ANY OF THE FOLLOWING OPTIONS

- OPTION #1: BY USING FASTENERS THRU DOOR FRAME INTO STRUCTURE
SEE ELEV. ABOVE FOR SPACING AND SHEETS 8 THRU 10 FOR DETAILS.
- OPTION #2: BY USING FASTENERS THRU CONT. ALUMINUM ANGLE
SEE ELEV. ON SHEET 7.1 FOR SPACING AND SHEET 11 FOR DETAILS.
- OPTION #3: BY USING FASTENERS THRU STRAP CLIPS
SEE ELEV. ON SHEET 7.2 FOR SPACING AND SHEET 11 FOR DETAILS.



SEE SHEETS 7.1, 7.2 AND 11 FOR OTHER MOUNTS

FOUR PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN.
DOOR MAY HAVE ANY NUMBER OF PANELS PROVIDED STILE COMBINATIONS
SHOWN IN THIS DRAWING ARE USED.

MAXIMUM DESIGN LOAD RATING = + 65.0 PSF
(FOR LEAF SIZE SHOWN OR SMALLER) - 65.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

DOOR TYPE 2

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 9 7 2011

Approved as complying with the
Florida Building Code
Date: 11/14/13
NOA# 13-0207-08
Miami Dade Product Control
By: Ismael L. Llanos

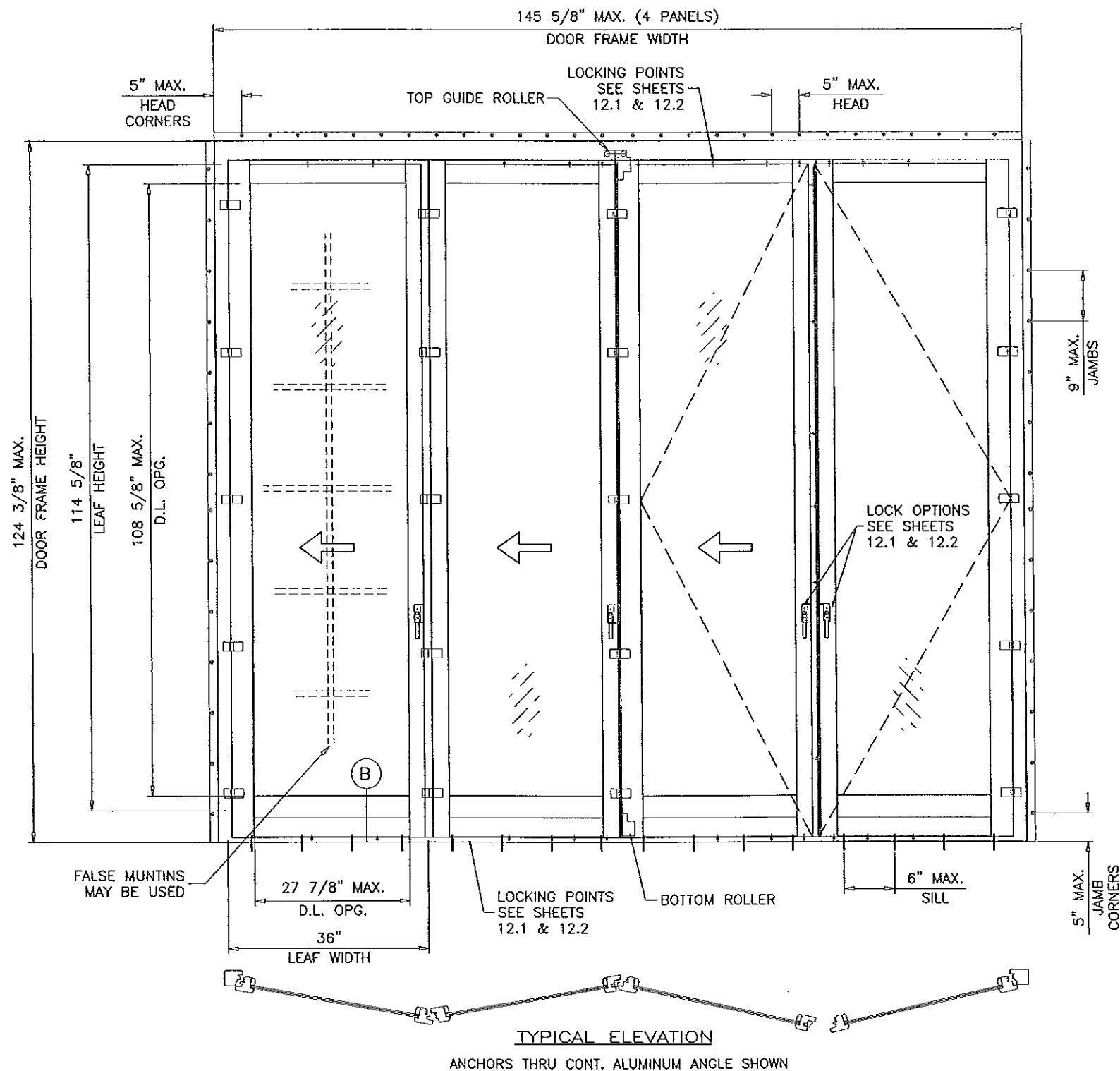
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

no.	date	description	by
A	4.25.13	REV. PER RER COMMENTS	
B	9.23.13	REV. PER RER COMMENTS	

date:	11-20-12
scale:	1/2"=1'-0"
dr. by:	HAMID
chk. by:	

drawing no.
W12-58
sheet 7 of 14



TYPICAL ELEVATION
ANCHORS THRU CONT. ALUMINUM ANGLE SHOWN

Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-0202-02
Miami Code Product Control
By [Signature]

MAXIMUM DESIGN LOAD RATING = + 65.0 PSF
(FOR LEAF SIZE SHOWN OR SMALLER) - 65.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

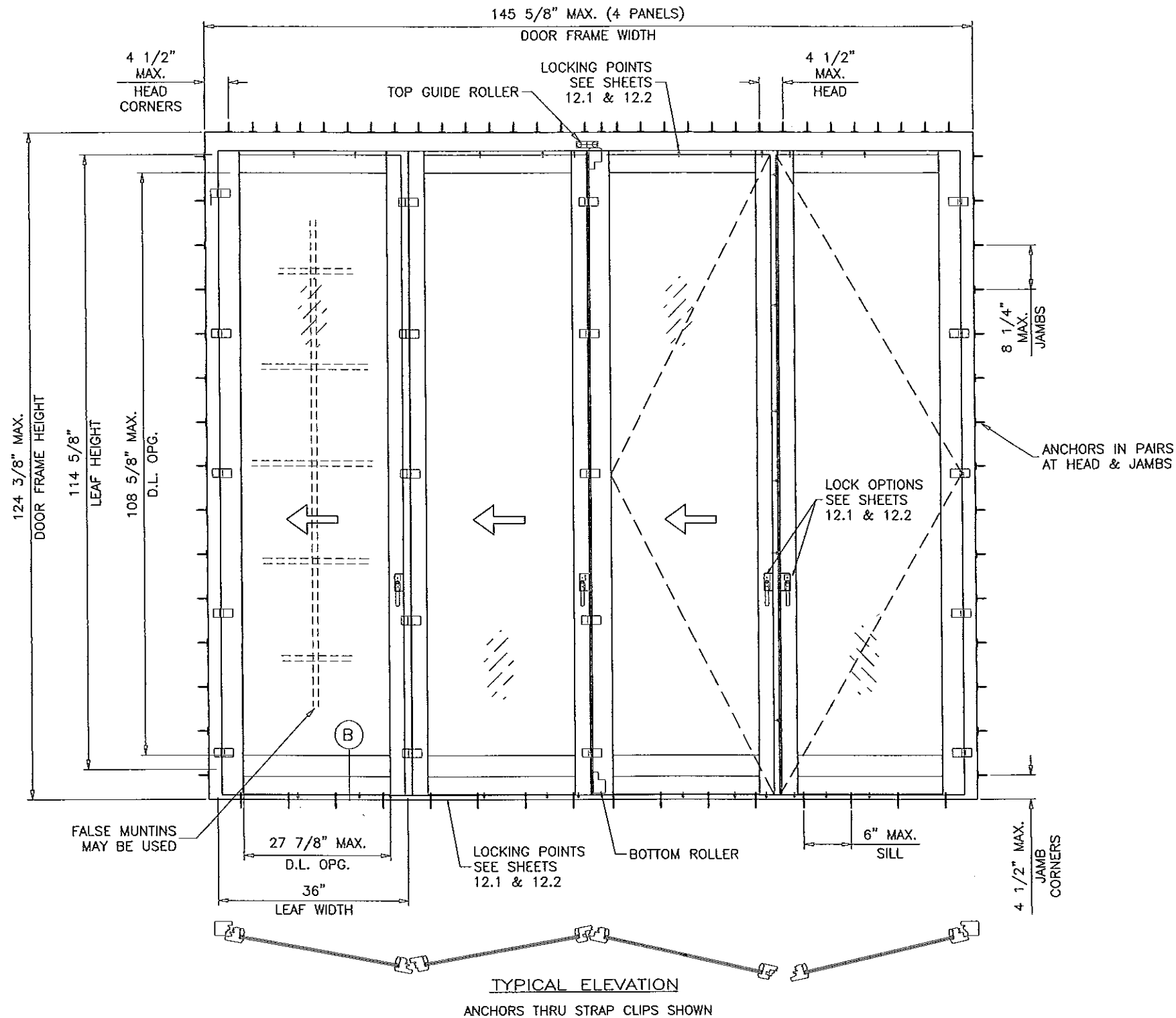
DOOR TYPE 2

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
[Signature]
NOV 10 2013

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

Revisions:		by	description
no	date		
B	9.23.13		REV. PER COMMENTS
date: 11-20-12		scale: 1/2"=1'-0"	
dr. by: HAMID		chk. by:	
drawing no.		W12-58	
sheet 7.1 of 14			



TYPICAL ELEVATION
ANCHORS THRU STRAP CLIPS SHOWN

Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-02207-05
Miami Dade Product Control
By [Signature]

MAXIMUM DESIGN LOAD RATING = + 65.0 PSF
(FOR LEAF SIZE SHOWN OR SMALLER) - 65.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

DOOR TYPE 2

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
[Signature]
NOV 07 2013

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W12-58HWD

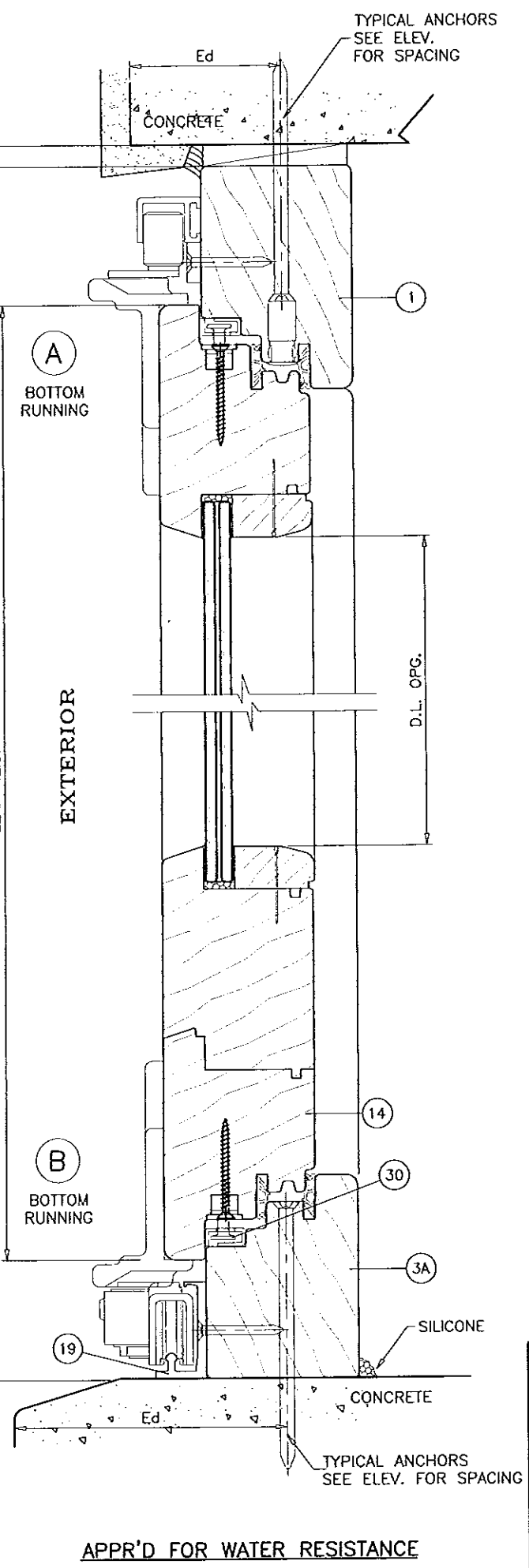
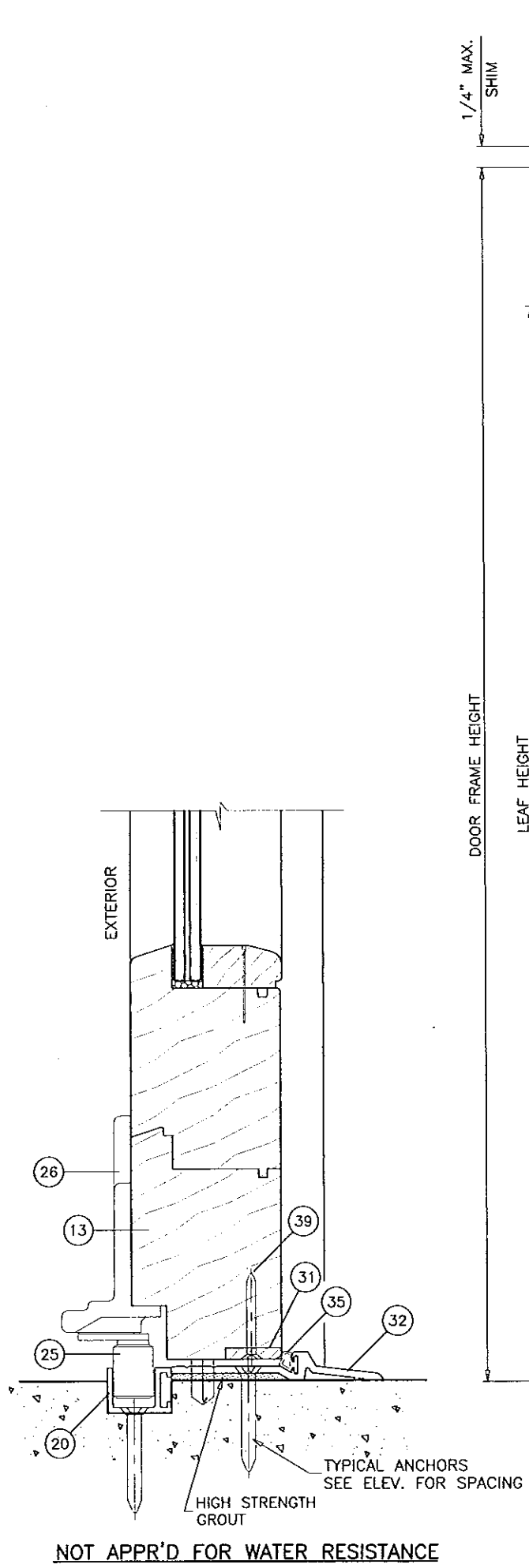
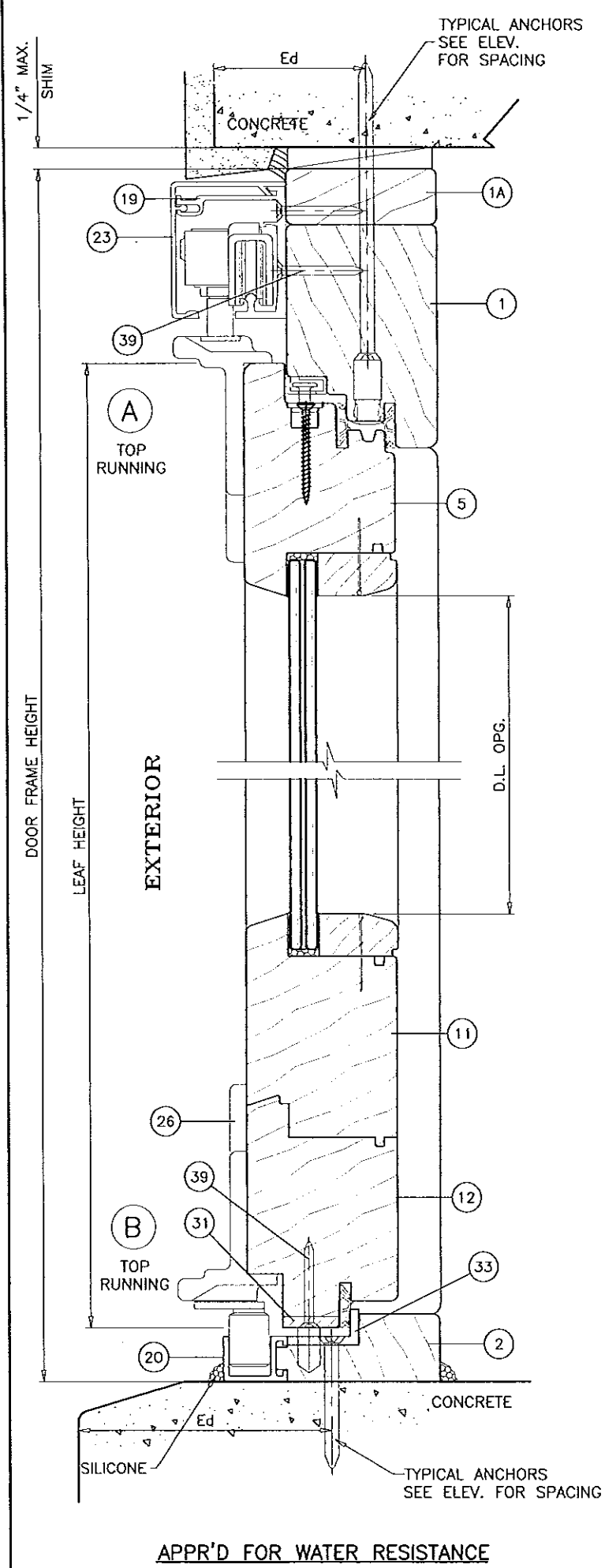
EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL (561) 296-9600 FAX (561) 296-9601

revisions:		no	date	by	description
		8	9.23.13		REV. PER PER COMMENTS

date: 11-20-12	scale: 1/2"=1'-0"	dr. by: HAMID	chk. by:
----------------	-------------------	---------------	----------

drawing no.
W12-58

sheet 7.2 of 14



Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-0207-06
Miami Dade Product Control
By [Signature]

DOOR TYPE 2

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
[Signature] 2013

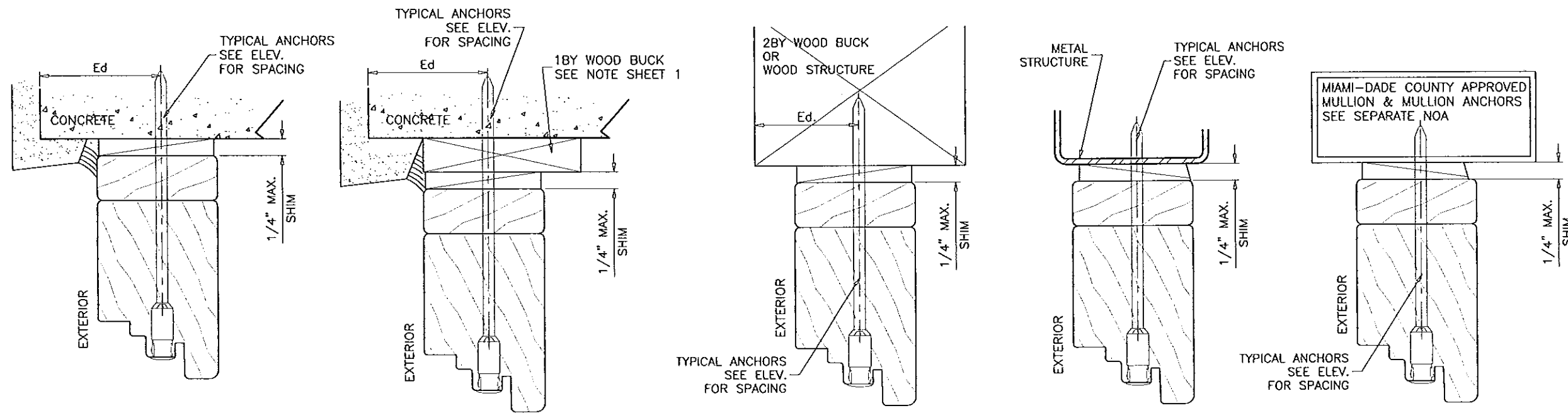
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL (561) 286-9600 FAX (561) 296-9601

revisions:		by description	
no	date	no	description
A	4.25.13	REV. PER RER COMMENTS	
B	9.23.13	REV. PER RER COMMENTS	

date: 11-20-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-58
sheet 8 of 14



WOOD BUCKS NOT BY HARTMAN WINDOWS, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

ANCHORS THRU DOOR FRAME

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

#14 SELF DRILLING SCREWS (GRADE 5 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")

INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

ANCHORS CL TO CL DISTANCE

INTO CONCRETE AND MASONRY = 2" MIN.
INTO WOOD STRUCTURE = 3/4" MIN. (UNLESS SPECIFIED)

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

STRAP CLIP AND CONT. ALUM ANGLE INSTALLATION OPTIONS.
SEE SHEET 11 FOR DETAILS.

Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-0207-06
Miami Dade Product Control
By [Signature]

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

[Signature]

DOOR TYPE 2



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)

HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

revisions:		by	description
not	date		
A	4.25.13	REV. PER	COMMENTS
B	9.23.13	REV. PER	COMMENTS

date: 11-20-12

scale: 3/8" = 1"

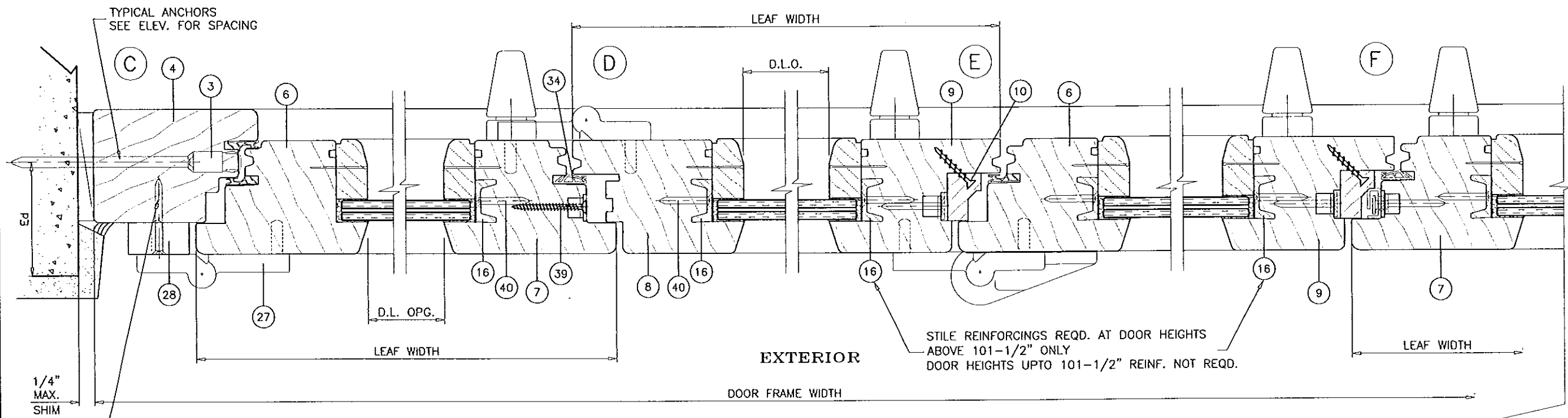
dr. by: HAMID

chk. by:

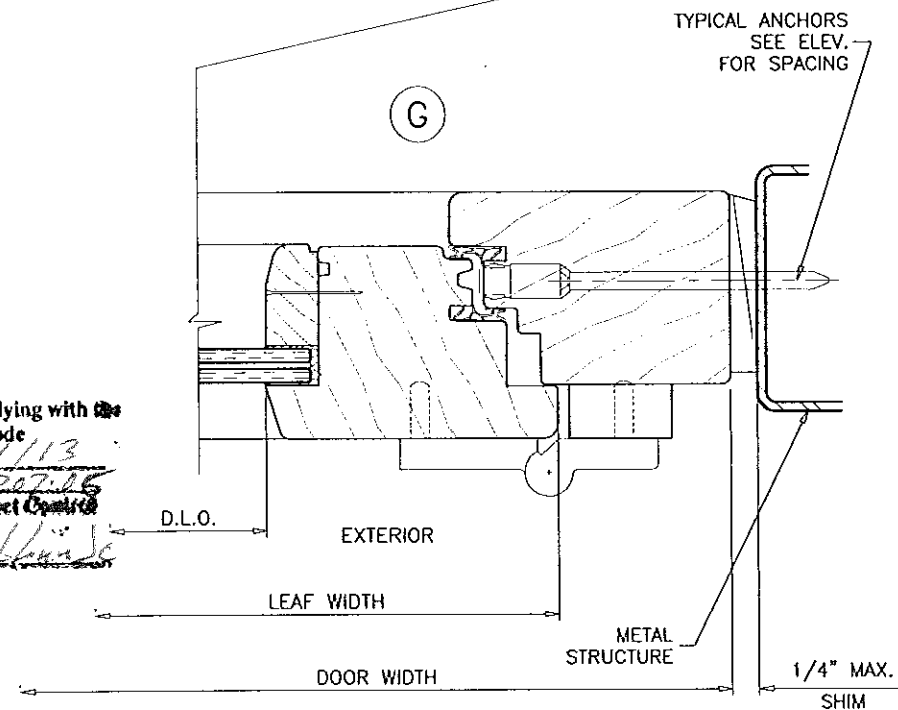
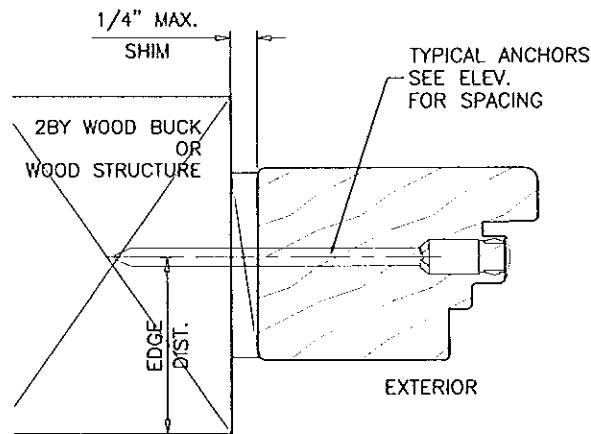
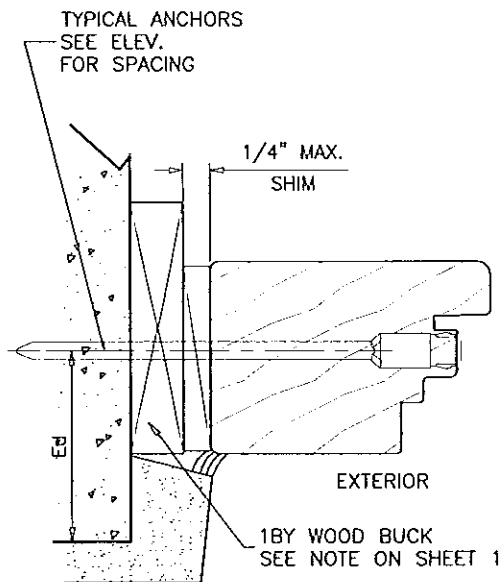
drawing no.

W12-58

sheet 9 of 14



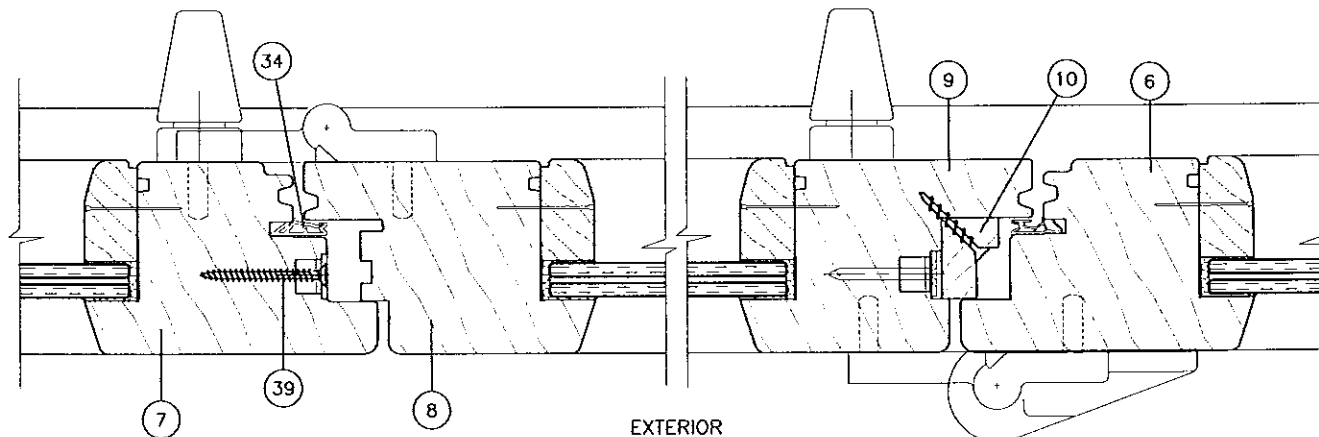
STILE REINFORCINGS REQD. AT DOOR HEIGHTS
ABOVE 101-1/2" ONLY
DOOR HEIGHTS UPTO 101-1/2" REINF. NOT REQD.



Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-0207-06
Miami Dade Product Control
By [Signature]

FOR DOOR TYPE 2 FRAME INSTALLATION
WITH CONT. ALUM ANGLE OR STRAP CLIPS,
SEE ELEV. ON SHEET 7.1 & 7.2 FOR SPACING
AND SHEET 11 FOR DETAILS.

DIRECT MOUNT OPTION SHOWN



Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

[Signature]
NOV 14 2013

DOOR TYPE 2

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978

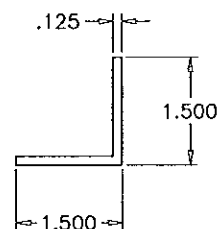
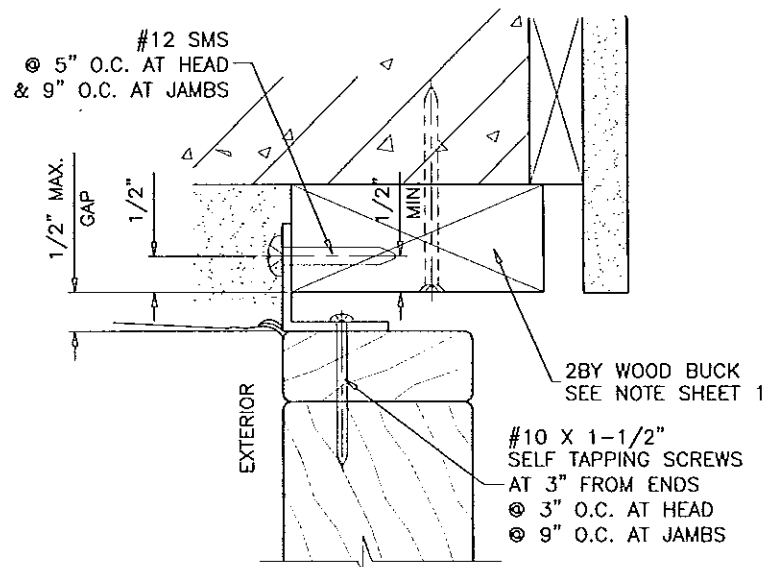
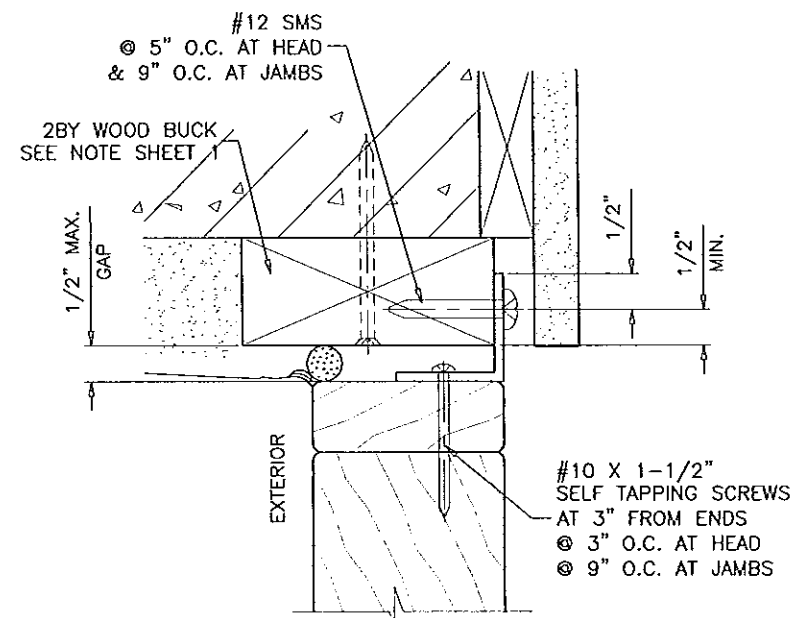
COMP-ANL\W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL (561) 296-9600 FAX (561) 296-9601

revisions:	
no	description
A	4.25.13 REV. PER RER COMMENTS
B	9.23.13 REV. PER RER COMMENTS

date: 11-20-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-58
sheet 10 of 14



ALUMINUM ANGLE CONTINUOUS
(6063-T5)

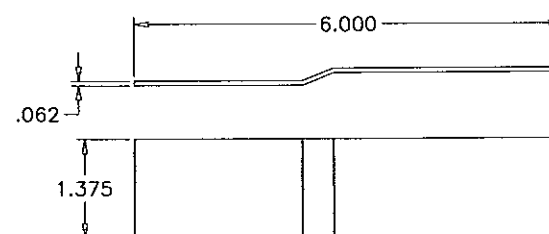
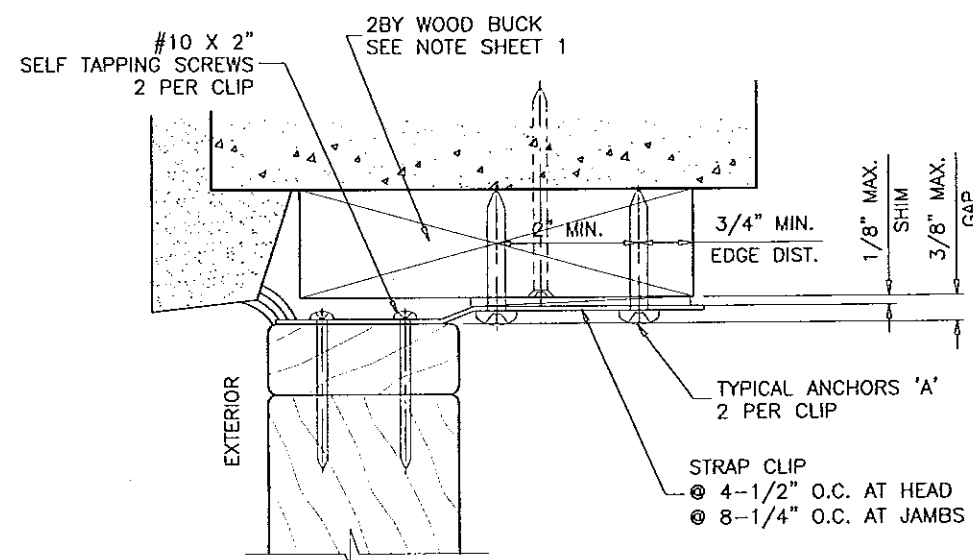
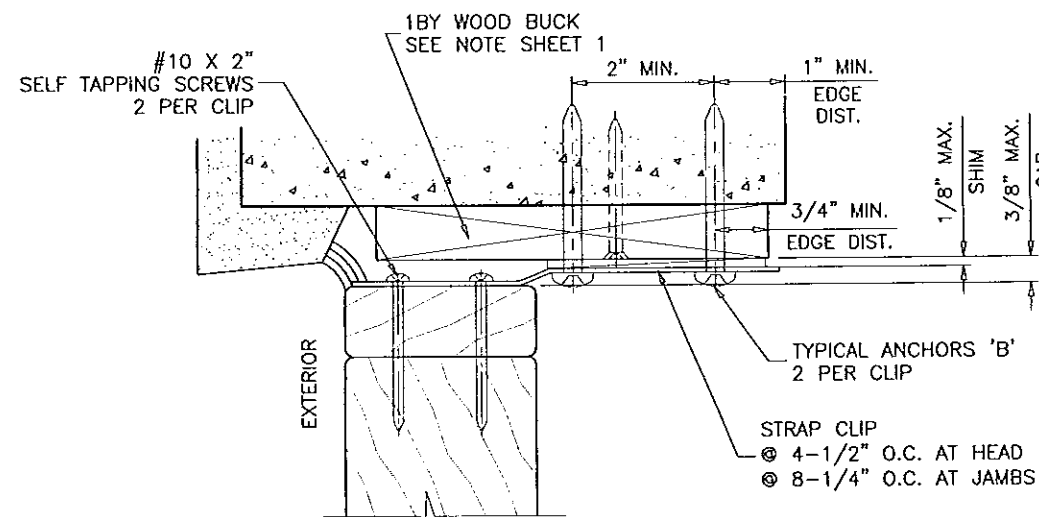
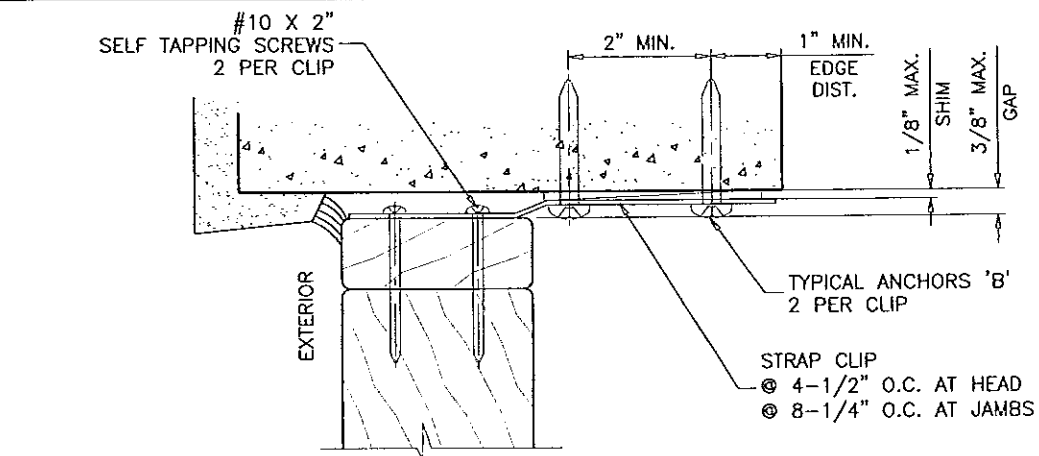
TYPICAL ANCHORS

ANCHORS THRU ALUMINUM ANGLE @ HEAD/JAMBS

#12 SMS

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-1/2" MIN. PENETRATION INTO WOOD

FOR SILL ANCHORS INTO CONC. SEE DETAIL 'B' ON SHEET 8



STRAP CLIP
Fy = 36 KSI
Fu = 58 KSI
Fes = 73.7 KSI

Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-0207-08
Miami Dade Product Control
By [Signature]

TYPICAL ANCHORS

ANCHORS THRU STRAP CLIPS @ HEAD/JAMBS

A: #10 SMS

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-1/2" MIN. PENETRATION INTO WOOD

B: 3/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 1" MIN.
INTO WOOD STRUCTURE = 3/4" MIN. (UNLESS SPECIFIED)

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

FOR SILL ANCHORS INTO CONC. SEE DETAIL 'B' ON SHEET 8

DOOR TYPE 2

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 13 2013

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

no	date	by	description
A	4.25.13	REV. PER RER COMMENTS	
B	9.23.13	REV. PER RER COMMENTS	

date: 11-20-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.

W12-58

sheet 11 of 14

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	1/ DOOR	FRAME HEAD	WOOD	MAHOGANY
1A	-	1/ DOOR	ALT. FRAME HEAD	WOOD	MAHOGANY
2	-	1/ DOOR	FRAME SILL (WATER RATED)	WOOD	MAHOGANY
3	-	AS REQD.	PLUG	WOOD	MAHOGANY
3A	-	1/ DOOR	ALT.FRAME SILL (WATER RATED)	WOOD	MAHOGANY
4	-	1/ DOOR	FRAME JAMB (SIDE)	WOOD	MAHOGANY
5	-	1/ PANEL	TOP RAIL	WOOD	MAHOGANY
6	-	1/ PANEL	STILE TYPE 1	WOOD	MAHOGANY
7	-	1/ PANEL	STILE TYPE 2	WOOD	MAHOGANY
8	-	1/ PANEL	STILE TYPE 3	WOOD	MAHOGANY
9	-	1/ PANEL	STILE TYPE 4	WOOD	MAHOGANY
10	-	1/ PANEL	LOCK COVER	WOOD	MAHOGANY
11	-	1/ PANEL	BOTTOM RAIL EXTENSION	WOOD	MAHOGANY
12	-	1/ PANEL	BOTTOM RAIL 30MM	WOOD	MAHOGANY
13	-	1/ PANEL	BOTTOM RAIL ADA	WOOD	MAHOGANY
14	-	1/ PANEL	BOTTOM RAIL 91MM	WOOD	MAHOGANY
15	-	1/ PANEL	ALT. STILE	WOOD	MAHOGANY
16	-	AS REQD.	STILE REINFORCING	STEEL	-
17	-	AS REQD.	GLASS STOP (LAM. GLASS)	WOOD	MAHOGANY
18	-	AS REQD.	GLASS STOP (LAM. INSUL. GLASS)	WOOD	MAHOGANY
19	P 1213	1	EXTRUDED RUNNING RAIL	ALUMINUM	GRETSCH-UNITAS / SIEGENIA-AUBI
20	P 1318	1	EXTRUDED GUIDING RAIL	ALUMINUM	GRETSCH-UNITAS / SIEGENIA-AUBI
21	P 1226	1	EXTRUDED GUIDING RAIL	ALUMINUM	GRETSCH-UNITAS / SIEGENIA-AUBI
22	-	1	SUPPORT	ALUMINUM	GRETSCH-UNITAS / SIEGENIA-AUBI
23	-	1	COVER RAIL	ALUMINUM	GRETSCH-UNITAS / SIEGENIA-AUBI
24	-	AS REQD.	RUNNER	-	GRETSCH-UNITAS / SIEGENIA-AUBI
25	-	AS REQD.	GLIDING ROLLER	-	GRETSCH-UNITAS / SIEGENIA-AUBI
26	-	AS REQD.	CORNER BEARING	STEEL	
27	-	AS REQD.	HINGE	STEEL	GRETSCH-UNITAS / SIEGENIA-AUBI
28	-	AS REQD.	SPACER, 1-1/8" X 3/4" X 3" LONG	NYLON	GRETSCH-UNITAS / SIEGENIA-AUBI
29	-	AS REQD.	MULTI POINT LOCK SYSTEM	-	GRETSCH-UNITAS / SIEGENIA-AUBI
30	-	AS REQD.	LOCKING PLATE	-	GRETSCH-UNITAS / SIEGENIA-AUBI
31	-	AS REQD.	SUPPORT PLATE	BRASS	PROPRIETARY
32	-	1	ADA SILL (NON-WATER RATED)	BRASS	PROPRIETARY
33	-	1	SILL ATTACHMENT	ALUMINUM	PROPRIETARY
34	GS 250M	AS REQD.	EPDM GASKET	EPDM	GS 250M EUROPROFILI
35	GS 250M	AS REQD.	EPDM GASKET	EPDM	GS 250M EUROPROFILI
36	V992	AS REQD.	NORTON NORSEAL TAPE	-	TOTAL PLASTICS
37	-	AS REQD.	18 GA. X 1-1/2" BRAD NAILS	S.S.	3" FROM ENDS & 8" O.C.
38	-	AS REQD.	#8 X 2-1/4" SCREWS	S.S.	2" FROM ENDS & 12" O.C.
39	-	AS REQD.	#8 X 1-1/2" SCREWS	S.S.	6" FROM ENDS & 8" O.C.
40	-	AS REQD.	#8 X 1-1/4" SCREWS	S.S.	6" FROM ENDS & 8" O.C.
41	-	AS REQD.	FASTENER	STEEL	6" FROM ENDS & 8" O.C.
42	-	AS REQD.	FASTENER	ALUMINUM	
43	-	AS REQD.	SPACER	ST. STEEL	CARDINAL IG

TYPICAL WOOD - AFRICAN MAHOGANY

SPECIFIC GRAVITY = 0.45 MIN.
MODULUS OF ELASTICITY E = 1,340,000 PSI

Bi-FOLD HARDWARE:

HINGES: TYPE 1 BY 'G.U.' TYPE 2 BY 'SIEGENIA'.

SURFACE MOUNT METALLIC KNUCKLE HINGES AT FRAME JAMBS
7-7/8" FROM EACH END AND 26-1/4" O.C.
FASTENED TO DOOR LEAF ONE SIDE WITH
(4) #10 X 1-3/4" FH SMS, AND OTHER SIDE WITH
(2) #10 X 1" FH WOOD SCREWS
HINGE HASP AT DOOR FRAME FASTENED WITH
(2) #12 X 3" FH WOOD SCREWS

Approved as complying with the
Florida Building Code
Date 11/14/13
NOA# 13-0207-06
Miami Code Product Control
By [Signature]

DOOR TYPE 2

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 19 2013

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

revisions:		by	description
no.	date		
A	4.25.13	REV. PER	COMMENTS
B	9.23.13	REV. PER	COMMENTS

date: 11-20-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-58
sheet 12 of 14

drawing no.
W12-58

sheet 12.1 of 14

Bi-FOLD HARDWARE:

LOCK OPTION 2: TYPE 1 BY 'G.U.' TYPE 2 BY 'KFV'.

SWINGING LEAF:

FLUSH MOUNT METALLIC MULTI POINT LOCK SYSTEM WITH
LEVER TYPE ACTIVATING HANDLE ON INTERIOR OF MTG. STILE
AT 36" FROM BOTTOM.
FASTENED WITH (20) #8 X 1-1/2" FH SMS
ENGAGING SIMULTANEOUSLY
(3) LOCKING POINTS AT HEAD
(3) LOCKING POINTS AT SILL
(6) LOCKING POINTS AT MTG. STILE.

SWINGING & FOLDING LEAF:

FLUSH MOUNT METALLIC MULTI POINT LOCK SYSTEM WITH
FLUSH TYPE ACTIVATING HANDLE ON INTERIOR OF MTG. STILE
AT 36" FROM BOTTOM.
FASTENED WITH (20) #8 X 1-1/2" FH SMS
ENGAGING SIMULTANEOUSLY
(3) LOCKING POINTS AT HEAD
(3) LOCKING POINTS AT SILL

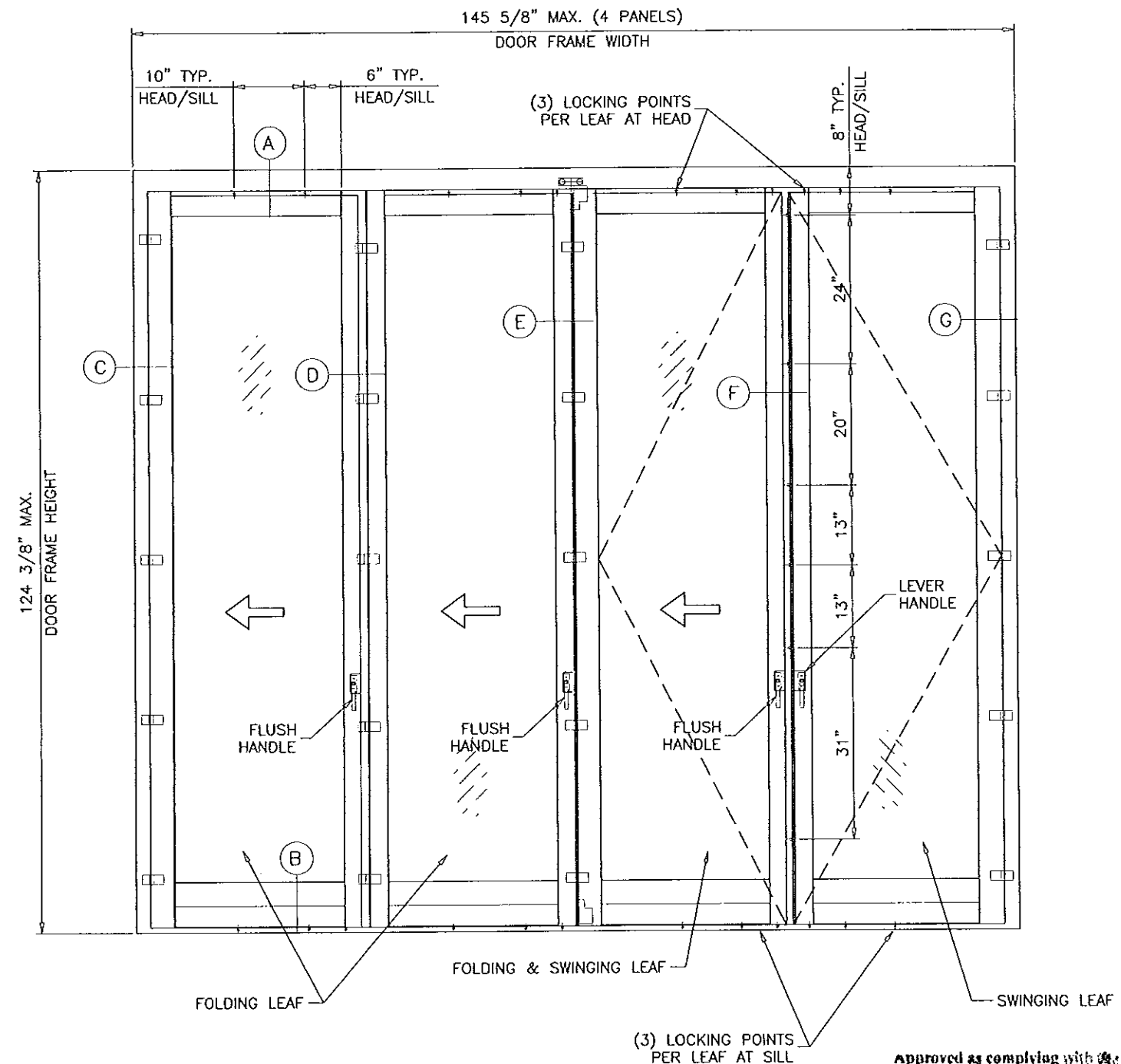
SURFACE MOUNT METALLIC KEEPERS FACING LOCKING
POINTS AT MTG. STILE
EACH KEEPER FASTENED WITH
(2) #8 X 3/4" FH SMS

FOLDING LEAF:

FLUSH MOUNT METALLIC MULTI POINT LOCK SYSTEM WITH
FLUSH TYPE ACTIVATING HANDLE ON INTERIOR OF MTG. STILE
AT 36" FROM BOTTOM.
FASTENED WITH (20) #8 X 1-1/2" FH SMS
ENGAGING SIMULTANEOUSLY
(3) LOCKING POINTS AT HEAD
(3) LOCKING POINTS AT SILL

SWINGING, SWINGING & FOLDING, FOLDING LEAFS:

SURFACE MOUNT METALLIC KEEPERS FACING LOCKING
POINTS AT HEAD AND SILL
EACH KEEPER FASTENED WITH
(2) #10 X 1-3/4" FH SMS



Approved as complying with the
Florida Building Code
Date: 11/14/13
NOA: 13-0-207-26
Miami Code Product Control
By: [Signature]

DOOR TYPE 2

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 13 2013

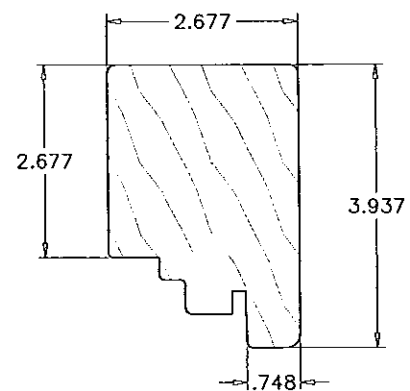
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX (561) 296-9601

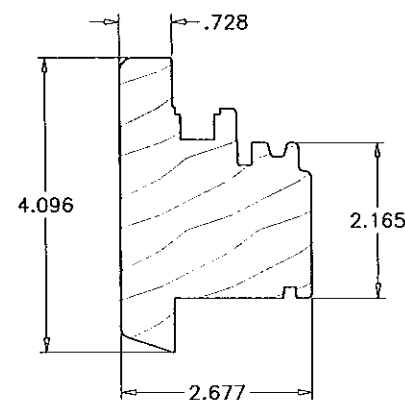
revisions:	no	date	by	description
	B	9.23.13		REV. PER COMMENTS

date: 11-20-12	scale: 3/8" = 1"	dr. by: HAMID	chk. by:
----------------	------------------	---------------	----------

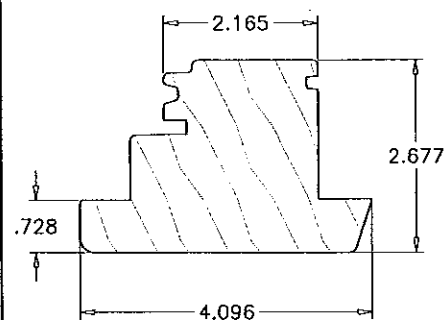
drawing no.
W12-58
sheet 12.2 of 14



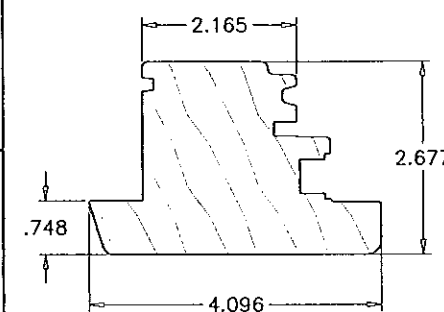
① FRAME HEAD
④ FRAME JAMB



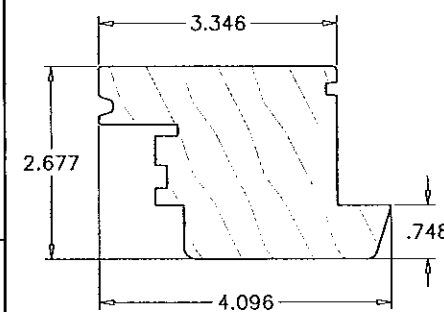
⑤ TOP RAIL
⑭ BOTTOM RAIL
⑨ STILE WITH LOCK



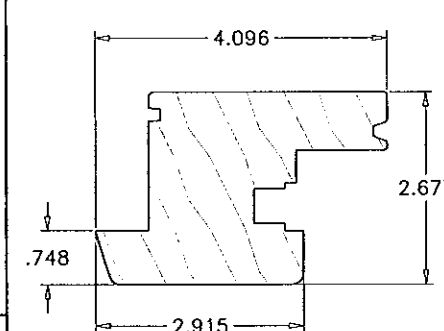
⑥ STILE TYPE 1



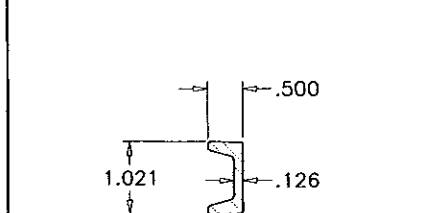
⑦ STILE TYPE 2



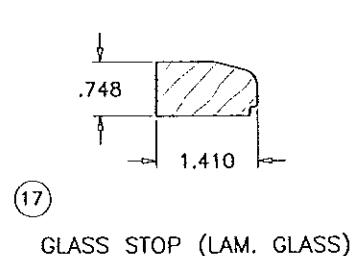
⑧ STILE TYPE 3



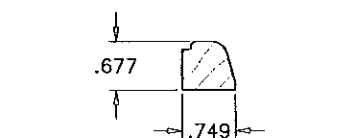
⑨ STILE TYPE 4



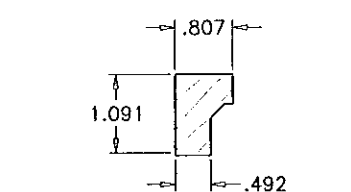
⑬ STILE REINFORCING



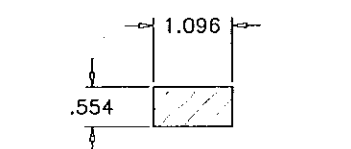
⑬ GLASS STOP (LAM. GLASS)



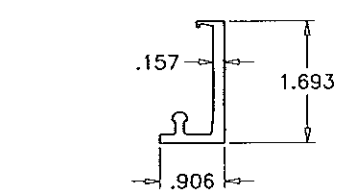
⑬ GLASS STOP (INSUL. LAM. GLASS)



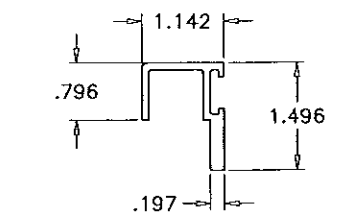
⑩ LOCK COVER



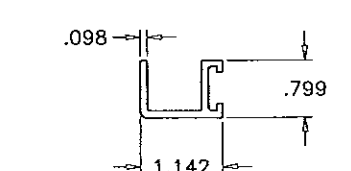
③ PLUG



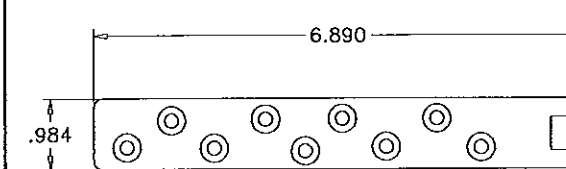
⑱ EXTRUDED RUNNING RAIL



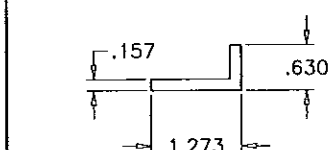
⑳ EXTRUDED GUIDING RAIL



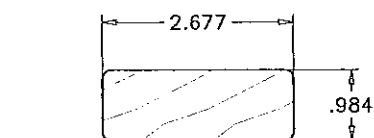
⑳ EXTRUDED GUIDING RAIL



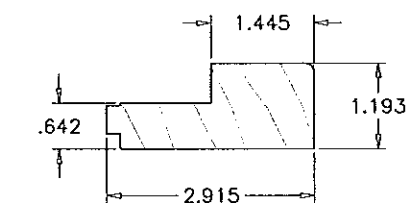
⑳ SUPPORT PLATE



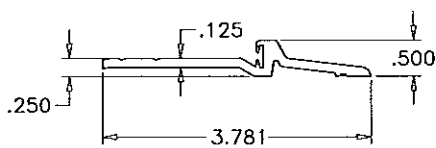
⑳ 30MM SILL



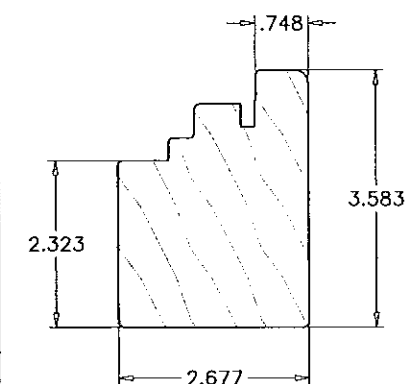
①A ALT. FRAME HEAD



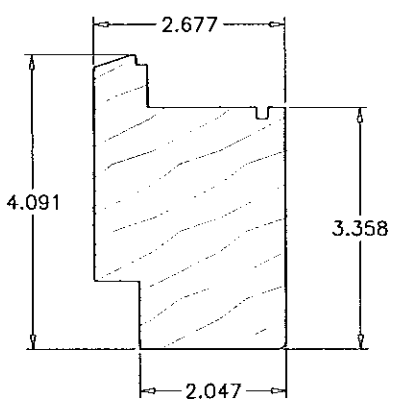
② FRAME SILL



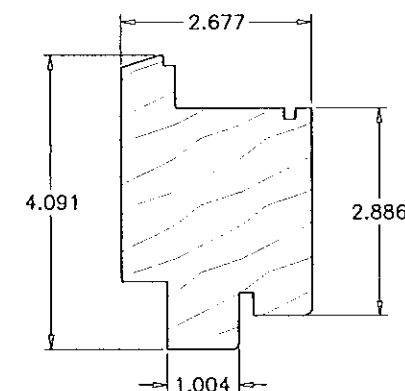
③② ADA SILL



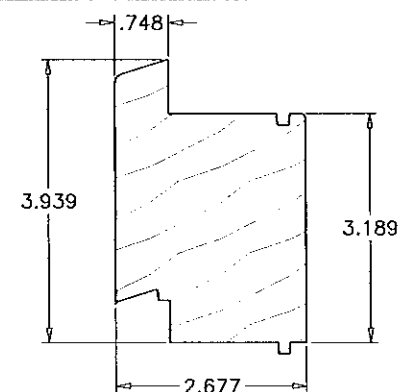
③A ALT. SILL



⑬ BOTTOM RAIL ADA



⑬ BOTTOM RAIL



⑪ BOTTOM RAIL EXTENSION

Approved as complying with the
Florida Building Code
Date: 11/13/13
NOA# 13-0207-05
Miami Made Product Control
By: [Signature]

DOOR TYPE 2

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

NOV 13 2013

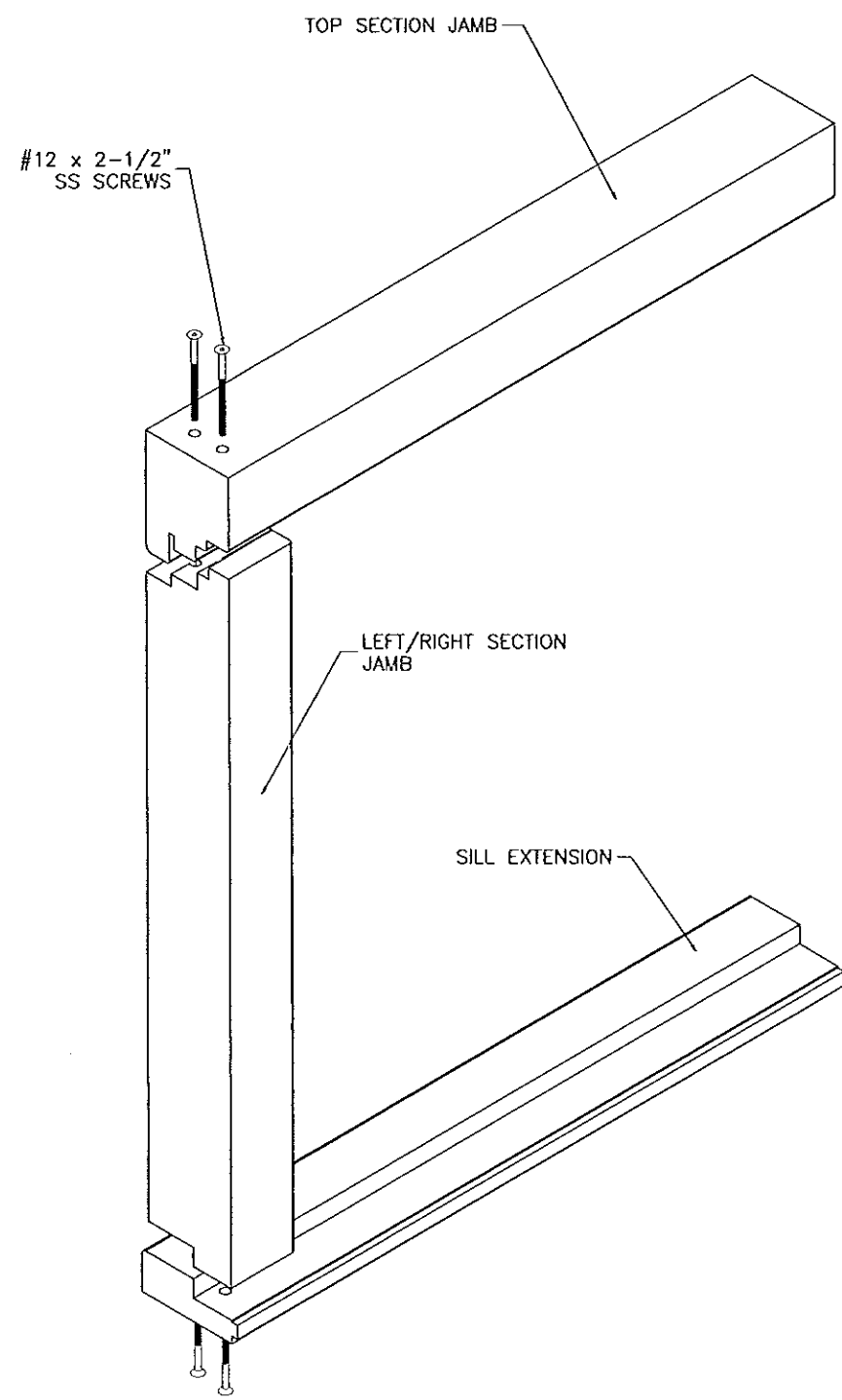
EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

no.	date	by	description
A	4.25.13	NO CHANGE	THIS SHEET
B	9.23.13	NO CHANGE	THIS SHEET

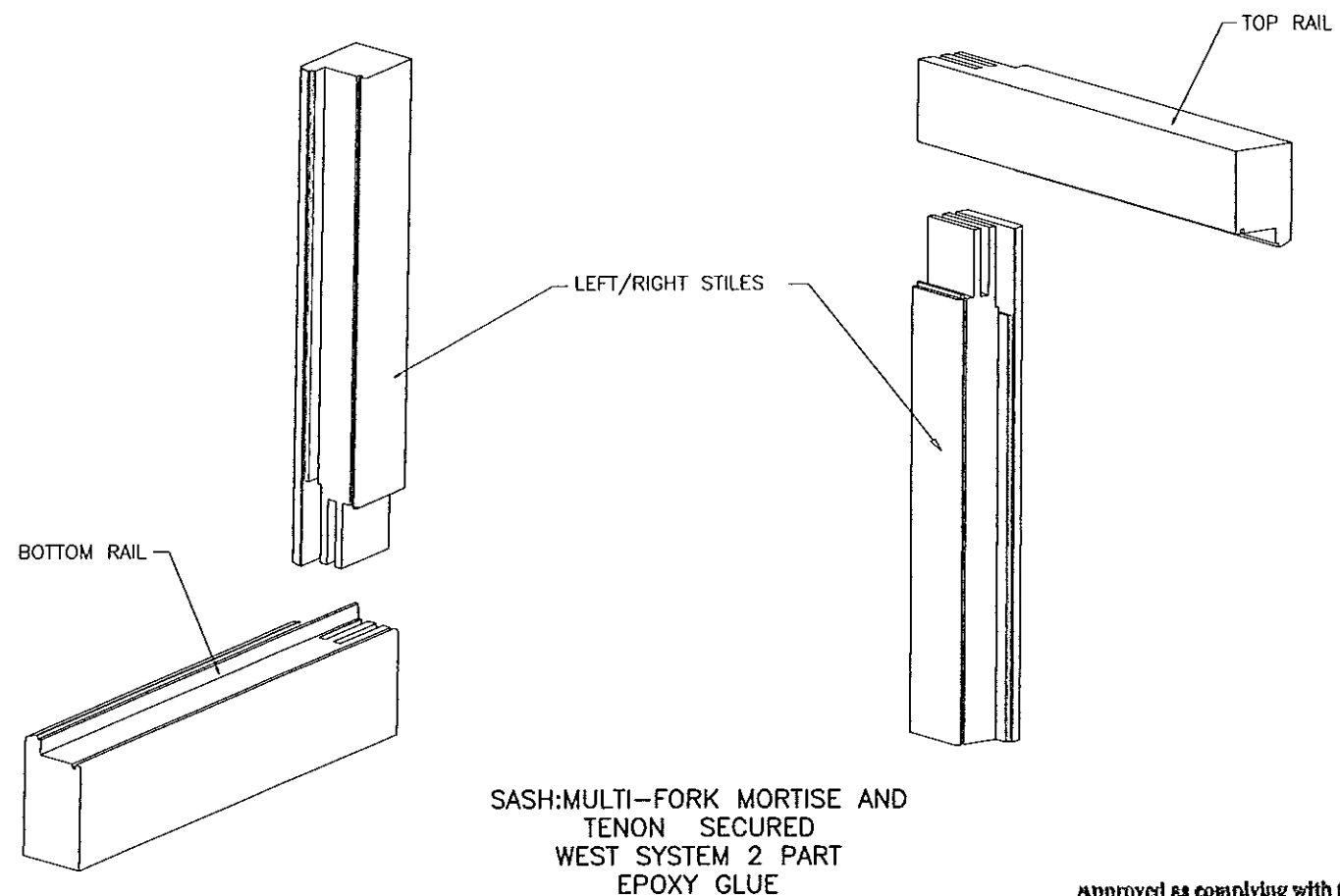
date: 11-20-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-58
sheet 13 of 14

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANLW12-58HWD



JAMB: HALF LAP SECURED WITH
#12X2-1/2 s.s. SCREWS NP-1 GLUE



SASH: MULTI-FORK MORTISE AND
TENON SECURED
WEST SYSTEM 2 PART
EPOXY GLUE

Approved as complying with the
Florida Building Code
Date Nov 14, 2013
NOA# 13-0207-02
Miami Dade Product Control
By [Signature]

DOOR TYPE 2

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
[Signature]
NOV 17 2013

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978

af c
COMP - ANL W12-58HWD

EUROPEAN WOOD OUTSWING BI-FOLD 431 DOOR (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL (561) 296-9600 FAX (561) 296-9601

NO CHANGES
NO CHANGES

revisions:		no	date	by	description
A	4.25.13				NO CHANGE THIS SHEET
B	9.23.13				NO CHANGE THIS SHEET

date: 11-20-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-58

sheet 14 of 14