



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Montag Windows & Doors, LLC
1249 Stirling Road, Suite 14
Dania Beach, FL 33004

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: Wood Single/Double Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. W12-54, titled "Wood Frame Single/Double Hung Window (L.M.I.)", sheets 1 through 11 of 11, dated 10/10/12, with revision A dated 03/07/13, 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 Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, 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 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



MP
3/25/13

NOA No. 12-1219.03
Expiration Date: April 04, 2018
Approval Date: April 04, 2013
Page 1

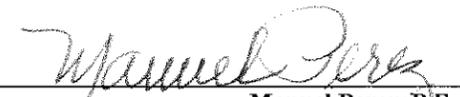
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W12-54**, titled "Wood Frame Single/Double Hung Window (L.M.I.)", sheets 1 through 11 of 11, dated 10/10/12, with revision A dated 03/07/13, 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 202-94along with marked-up drawings and installation diagram of a wood double hung window and fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI-B9269.01-550-18**, dated 08/20/12, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on:
 - 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of a wood double hung window and fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI-B9269.02-550-18**, dated 08/20/12, signed and sealed by Vinu J. Abraham, P.E.
3. Test reports on:
 - 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of a wood double hung window and fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI-B9269.03-550-18**, dated 08/20/12, signed and sealed by Vinu J. Abraham, P.E.
4. 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 202-94along with marked-up drawings and installation diagram of a wood double hung window and fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI-B9269.04-550-18**, dated 08/20/12, signed and sealed by Vinu J. Abraham, P.E.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-1219.03

Expiration Date: April 04, 2018
Approval Date: April 04, 2013

Montag Windows & Doors, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULAIONS

1. Anchor verification calculations and structural analysis complying with FBC-2010, dated 11/12/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

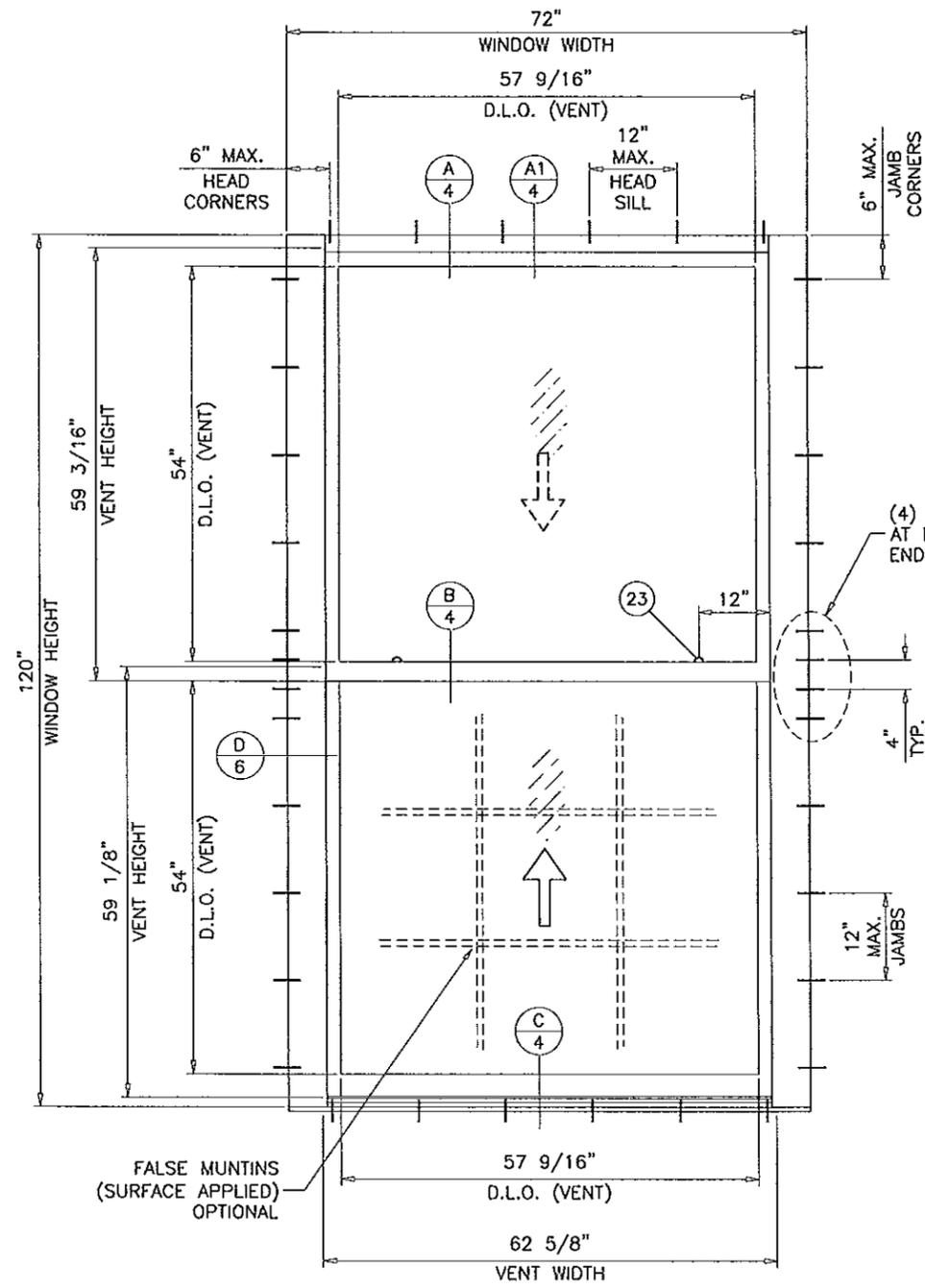
1. Statement letter of conformance, complying with FBC 2010, and of no financial interest with the lab, dated October 12, 2012, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Proposal No. **11-0844** issued by Product Control, dated August 1, 2011, signed by Manuel Perez, P. E.
3. Distributor Agreement document in conformance to PERA guidelines, dated 12/04/12, signed by Gerhard Lang (Manufacturer) and Mitch Lewandowski (Distributor).
(Submitted under previous NOA# 08-1224.17)

G. OTHER

1. None.

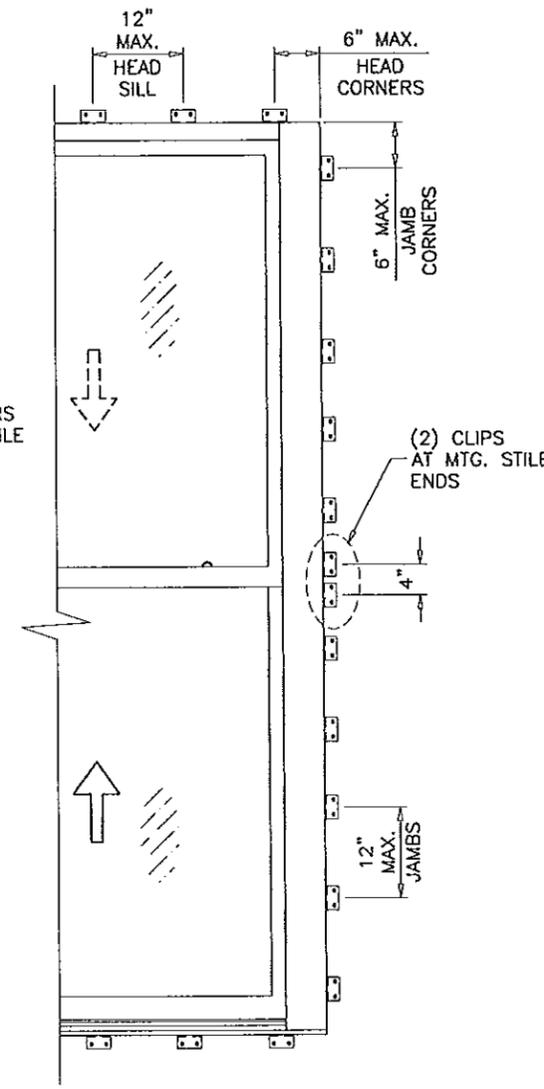

Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-1219.03

Expiration Date: April 04, 2018
Approval Date: April 04, 2013

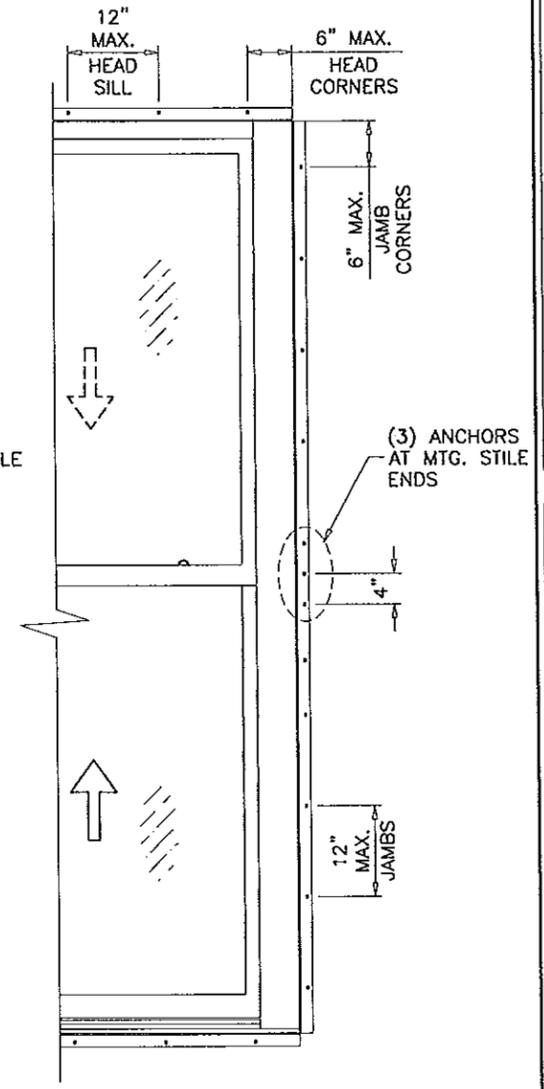


TYPICAL ELEVATION

ANCHORS THRU WINDOW FRAMES



ANCHORS THRU STRAP CLIPS
SEE SHEET 7 FOR DETAIL



ANCHORS THRU CONTINUOUS ANGLE
SEE SHEET 7 FOR DETAIL

WOOD FRAME SINGLE/DOUBLE HUNG WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF TWO OR MORE UNITS. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2 & 3. FOR SIDE BY SIDE WINDOWS MULLION CAPACITY SEE SHEET 10. FOR TOP & BOTTOM WINDOW MULLION CAPACITY SEE SHEET 11. LOWER DESIGN PRESSURE FROM WINDOW OR MULLION CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.

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

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

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.

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

ALL WOOD IN CONTACT WITH MASONRY AND CONCRETE ETC. WILL BE TREATED USING ONE COAT OF 'INDULINE GW360', ONE COAT OF 'INDULINE ZW502' AND TWO COATS OF 'INDULINE LW700' WOOD PRESERVATIVE.

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

MAR 26 2013

Approved as complying with the Florida Building Code
Date: APR 14 2013
MOA# 12-1219-03
Miami Dade Product Control

By: *Manuel Perez*



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL W12-54MNA

WOOD FRAME SINGLE/DOUBLE HUNG WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
1249 STIRLING ROAD, STE. 14
DANIA BEACH, FL 33004
TEL. (866) 562-1728 FAX. (866) 563-1728

no	date	by	description
A	03.07.13		REV. PER PER COMMENTS

date: 10-10-12
scale: 1/2" = 1'-0"
dr. by: HAMID
chk. by:

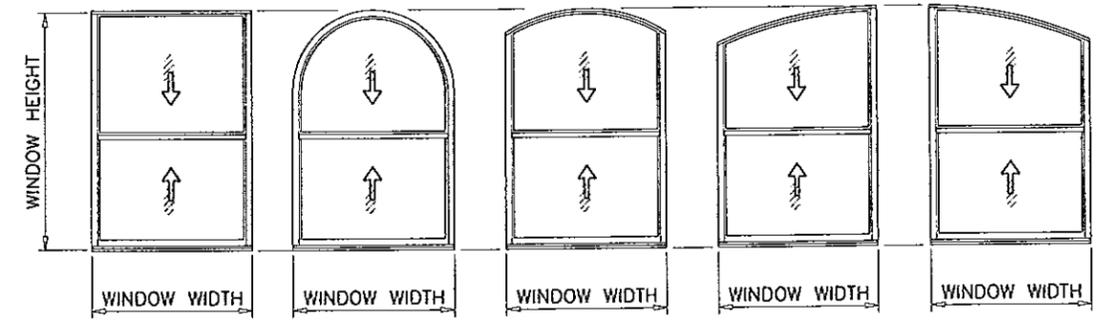
drawing no.
W12-54
sheet 1 of 11

EQUAL LITES S.H. OR D.H. WINDOWS			
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		LAM. GLASS	
WIDTH	HEIGHT	LAM. INSUL. GLASS	EXT.(+) INT.(-)
30"	60" (9)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	66" (9)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	72" (10)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	78" (10)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	84" (11)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	90" (11)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0

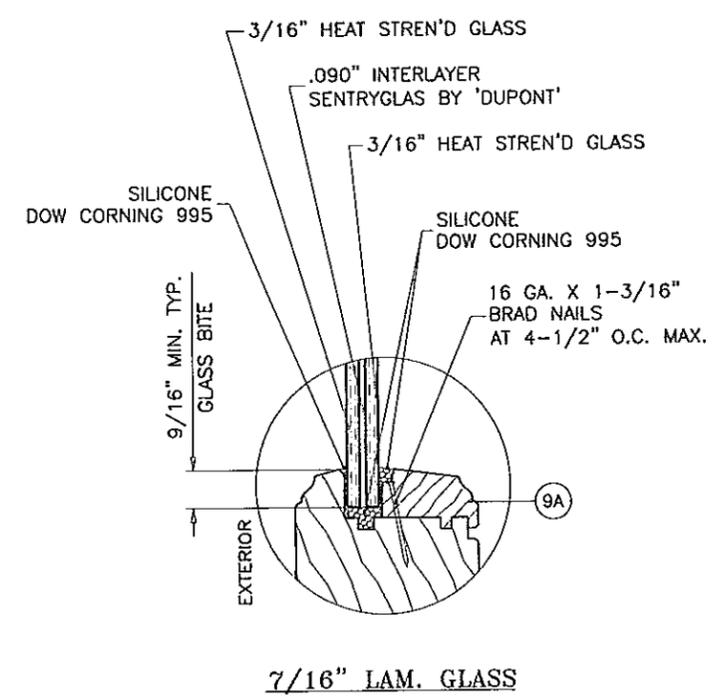
EQUAL LITES S.H. OR D.H. WINDOWS			
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		LAM. GLASS	
WIDTH	HEIGHT	LAM. INSUL. GLASS	EXT.(+) INT.(-)
30"	96" (12)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	102" (12)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	108" (13)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	114" (13)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	120" (14)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0

* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.

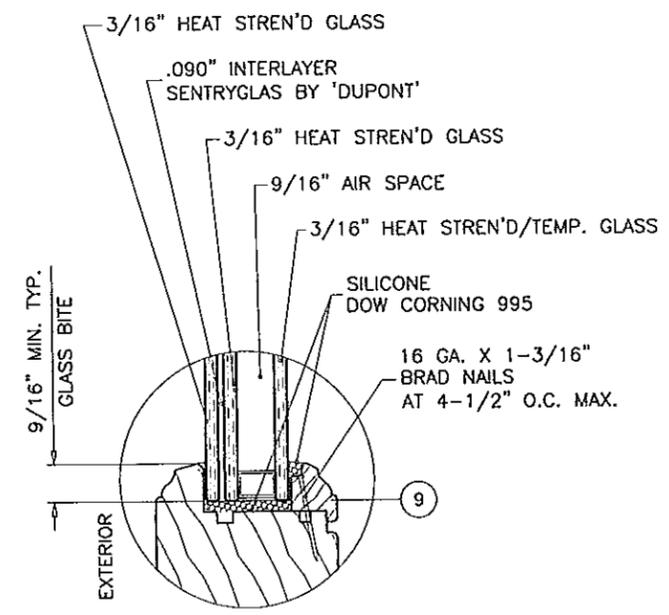
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS).



SINGLE OR DOUBLE HUNG WINDOWS
APPROVED CONFIGURATIONS EQUAL LITES
SHAPES SHOWN ABOVE OR SIMILAR



7/16" LAM. GLASS



1-3/16" LAM. INSUL. GLASS

GLAZING OPTIONS

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
MAR 26 2013

Approved as complying with the
Florida Building Code
Date: 12-14-2013
NOA# 12-1219-03
Miami Dade Product Control
By: *Manuel Perez*

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 - 54MNA

WOOD FRAME SINGLE/DOUBLE HUNG WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
1249 STIRLING ROAD, STE. 14
DANIA BEACH, FL 33004
TEL. (866) 562-1728 FAX. (866) 563-1728

revisions:	no	date	by	description
	A	03.07.13		NO CHANGE THIS SHEET

date:	10-10-12
scale:	1
dr. by:	HAMID
chk. by:	

drawing no.
W12-54
sheet 2 of 11

UNEQUAL LITES S.H. WDW. (ORIEL TYPE)

DESIGN LOAD CAPACITY - PSF

WINDOW DIMS.		LAM. GLASS LAM. INSUL. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
30"	72" (10)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	78" (10)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	84" (11)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	90" (11)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	96" (12)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	102" (12)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0

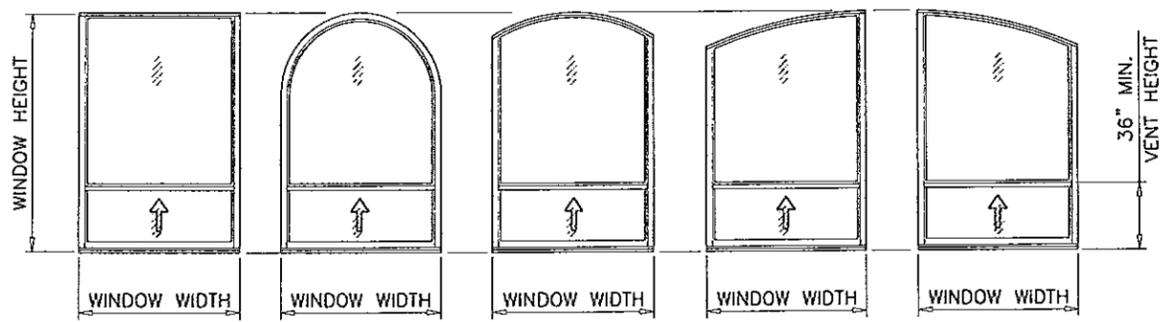
UNEQUAL LITES S.H. WDW. (ORIEL TYPE)

DESIGN LOAD CAPACITY - PSF

WINDOW DIMS.		LAM. GLASS LAM. INSUL. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
30"	108" (13)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	114" (13)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0
30"	120" (14)	75.0	75.0
36"		75.0	75.0
42"		75.0	75.0
48"		75.0	75.0
54"		75.0	75.0
60"		75.0	75.0
66"		75.0	75.0
72"		75.0	75.0

* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS).



SINGLE HUNG WINDOWS
APPROVED CONFIGURATIONS UNEQUAL LITES (ORIEL TYPE)
SHAPES SHOWN ABOVE OR SIMILAR

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

MAR 26 2013

Approved as complying with the
Florida Building Code
Date April 4, 2013
NOA# 121-1219.03
Miami Dade Product Control
By Manuel P...

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 W12-54MNA

WOOD FRAME SINGLE/DOUBLE HUNG WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
1249 STIRLING ROAD, STE. 14
DANIA BEACH, FL 33004
TEL. (866) 562-1728 FAX. (866) 563-1728

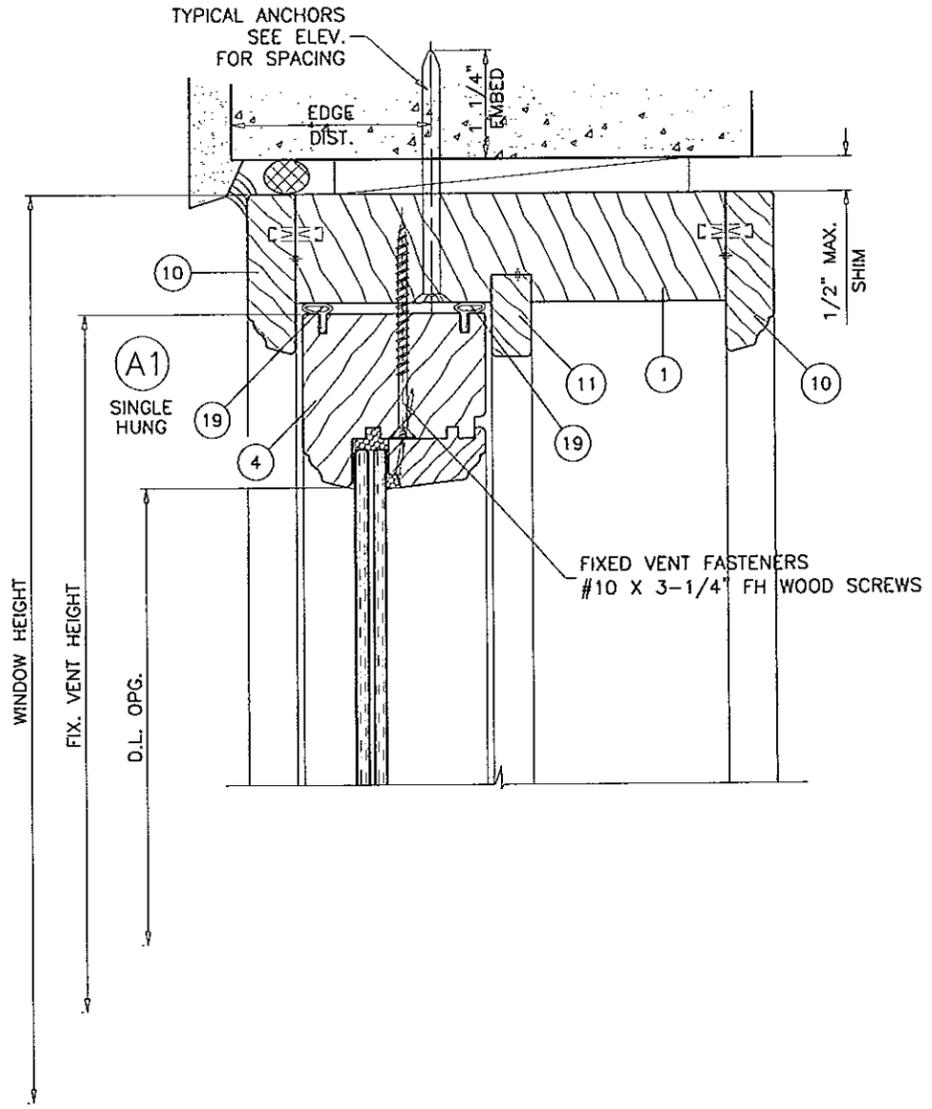
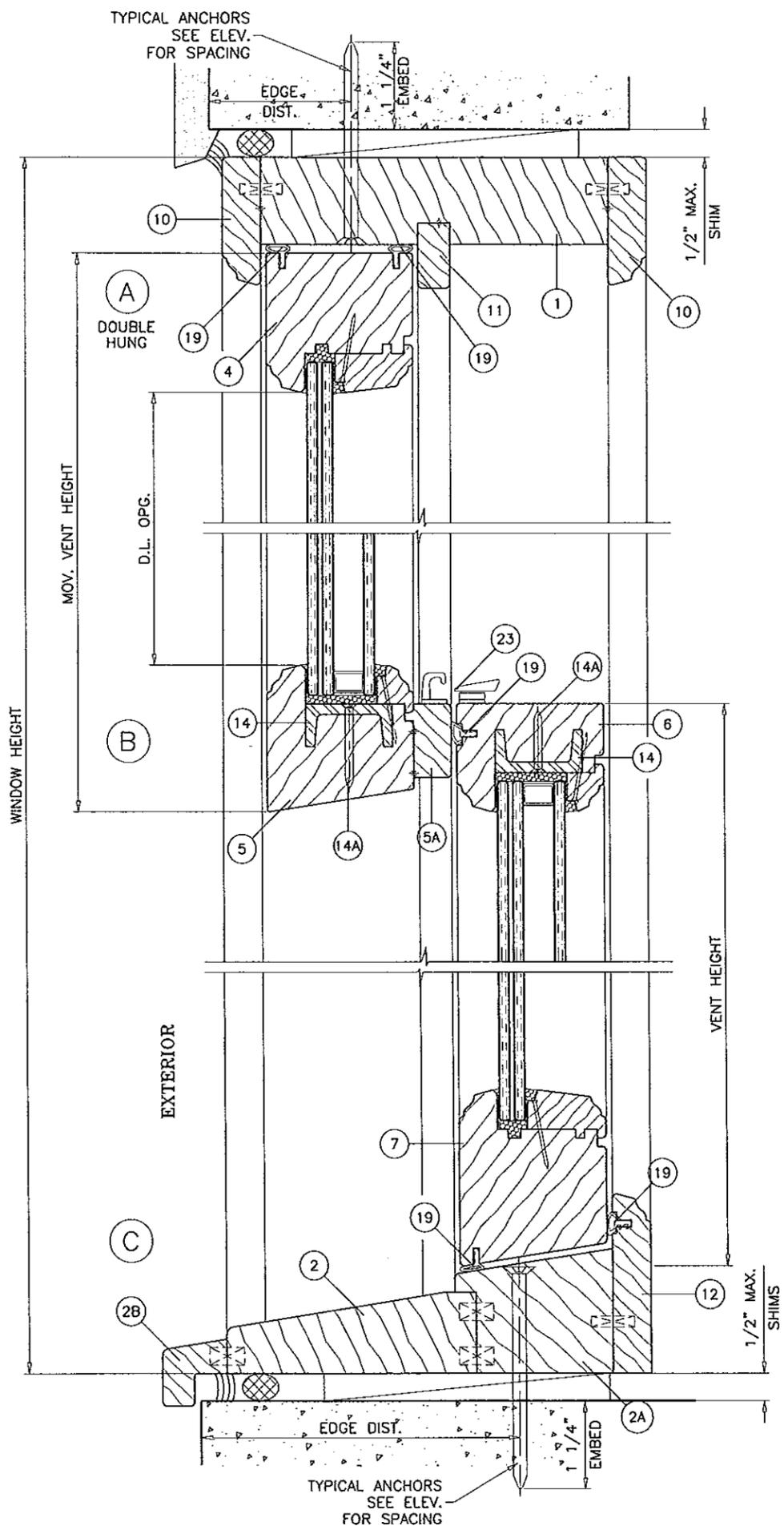
no.	date	description
A	03.07.13	NO CHANGE THIS SHEET

revisions:

date: 10-10-12
scale: -
dr. by: HAMID
chk. by:

drawing no.
W12-54

sheet 3 of 11



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

MAR 26 2013

Approved as complying with the
 Florida Building Code
 Date April 4, 2013
 NOA# 12-1219-03
 Miami Dade Product Control

By *Manuel Jerez*

a f 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 \ W12-54MINA

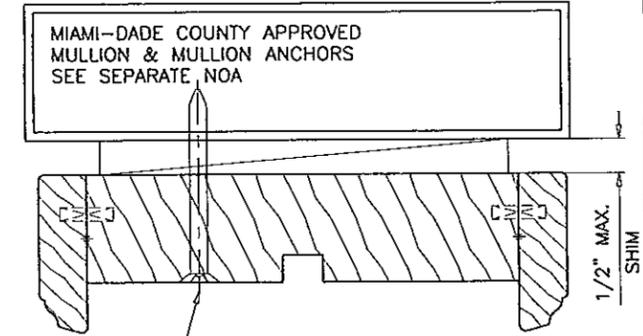
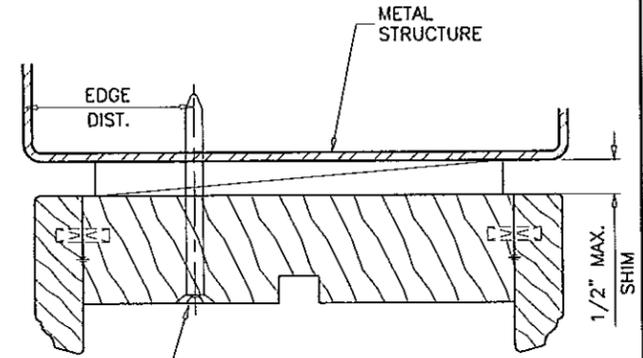
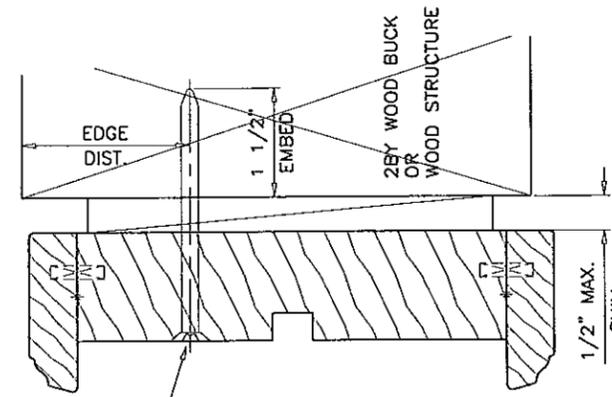
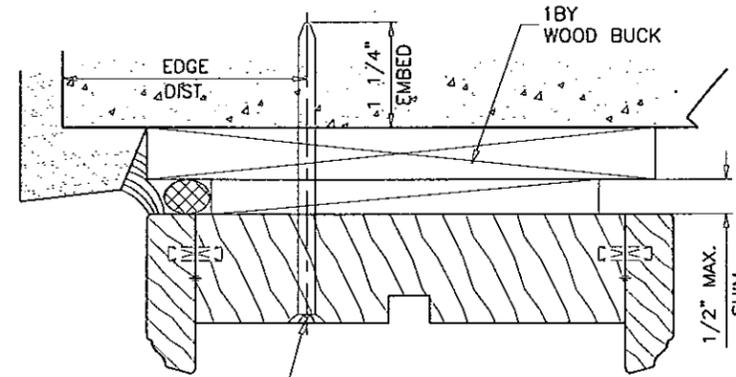
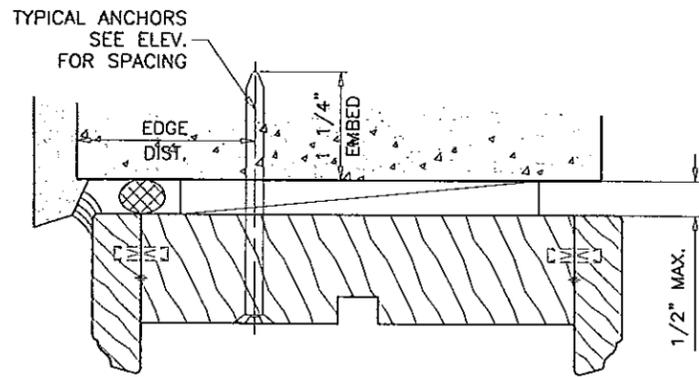
WOOD FRAME SINGLE/DOUBLE HUNG WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
 1249 STIRLING ROAD, STE. 14
 DANIA BEACH, FL 33004
 TEL. (866) 562-1728 FAX. (866) 563-1728

no	date	by	description
A	03.07.13		NO CHANGE THIS SHEET

date: 10-10-12
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W12-54

sheet 4 of 11



WOOD BUCKS AND METAL STRUCTURE NOT BY MONTAG MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
 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 CONC. OR MASONRY
 DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

1/4" DIA. TEKS OR 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.

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

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

MAR 26 2013

Approved as complying with the
 Florida Building Code
 Date APR 4 2013
 NOA# 12-1219-03
 Miami Dade Product Control

By *Mamuel P...*

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-9100 FAX. (305) 262-6978
 COMP-ANL\W12-54MNA

WOOD FRAME SINGLE/DOUBLE HUNG WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
 1249 STIRLING ROAD, STE. 14
 DANIA BEACH, FL 33004
 TEL. (866) 562-1728 FAX. (866) 563-1728

no.	date	description	by	chk.
A	03.07.13	NO CHANGE THIS SHEET		

revisions:

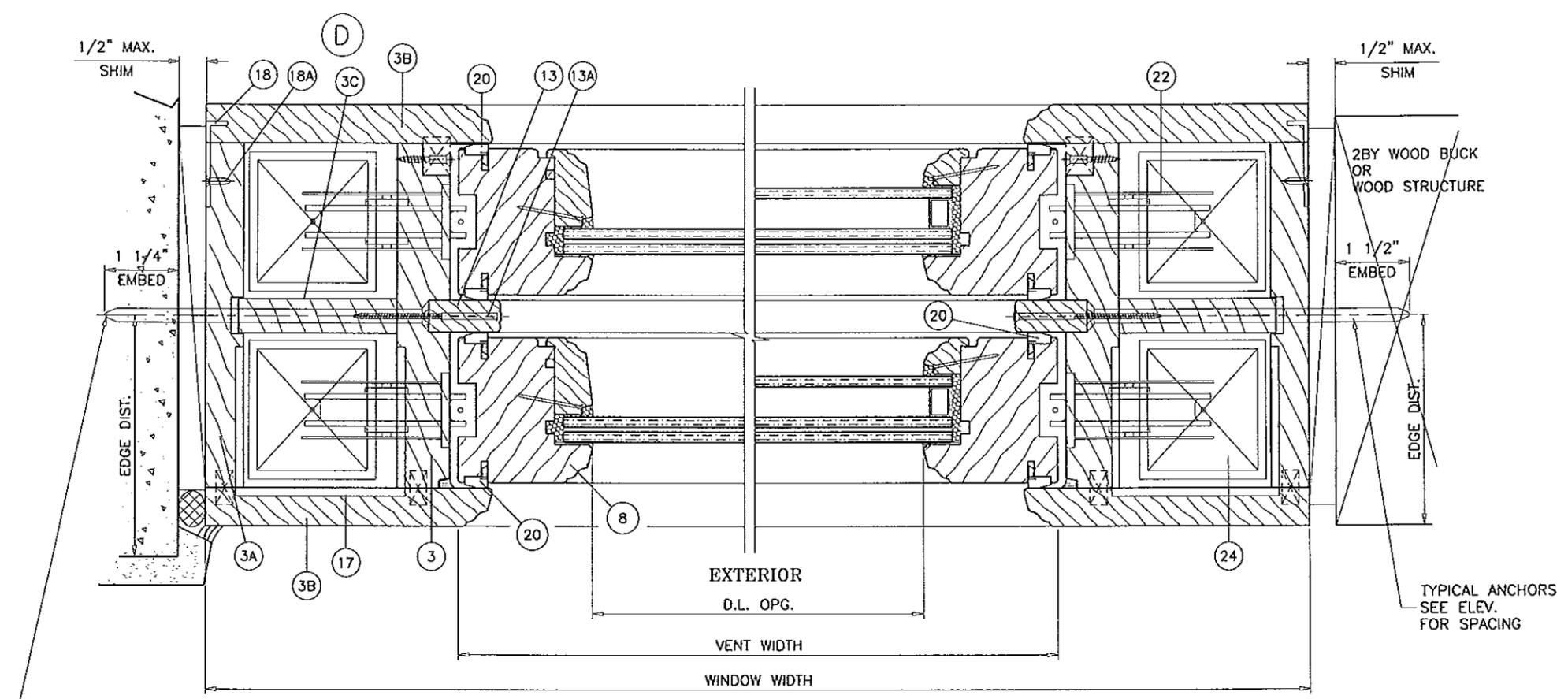
date: 10-10-12
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W12-54

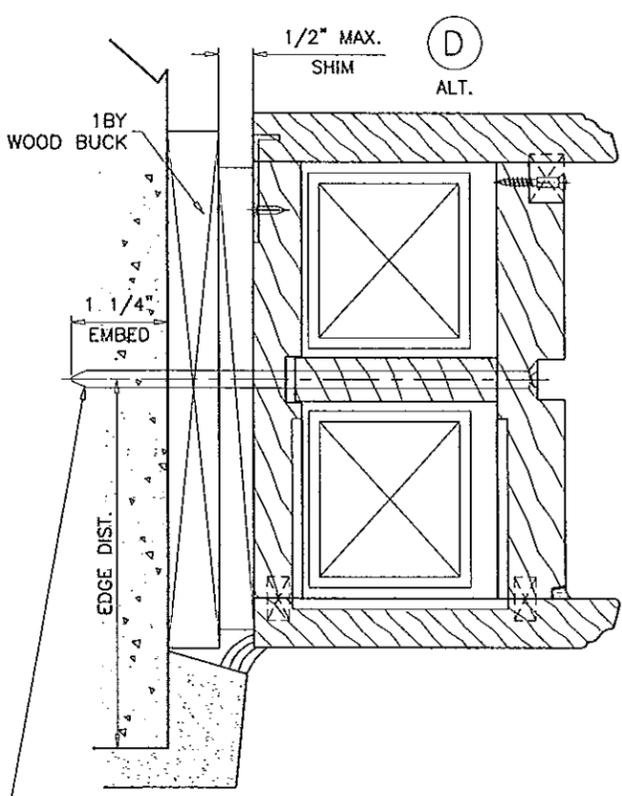
sheet 5 of 11

revisions:	no	date	by	description
	A	03.07.13		REV. PER PER COMMENTS

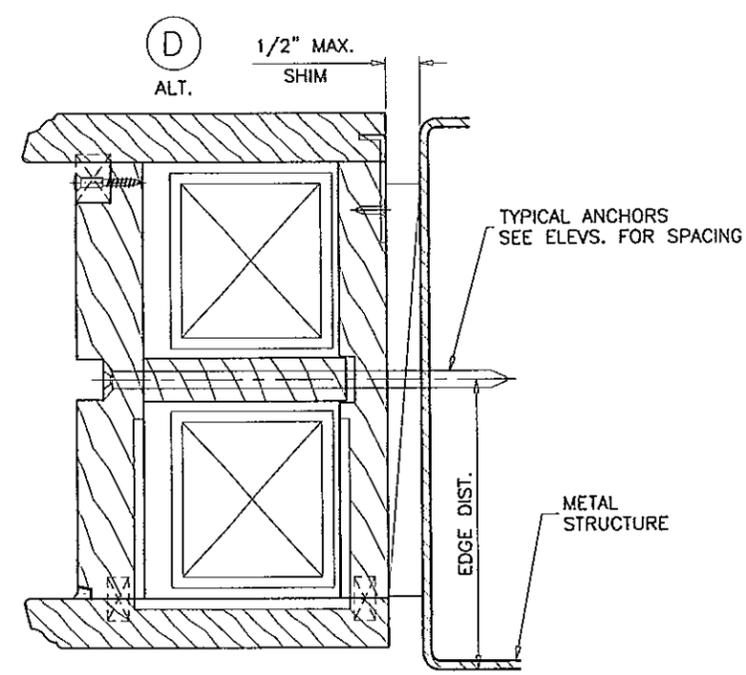
date:	10-10-12
scale:	3/8" = 1"
dr. by:	HAMID
chk. by:	



TYPICAL ANCHORS
 SEE ELEV.
 FOR SPACING



TYPICAL ANCHORS
 SEE ELEV.
 FOR SPACING

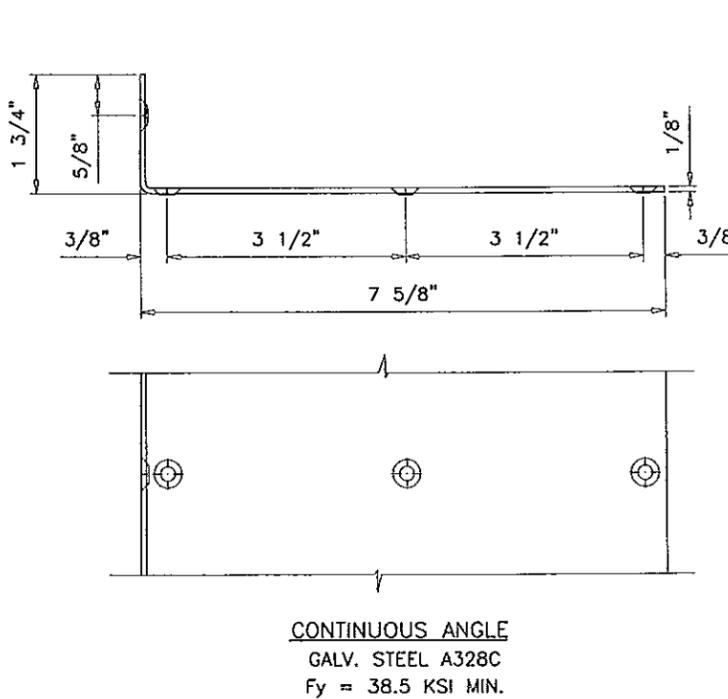
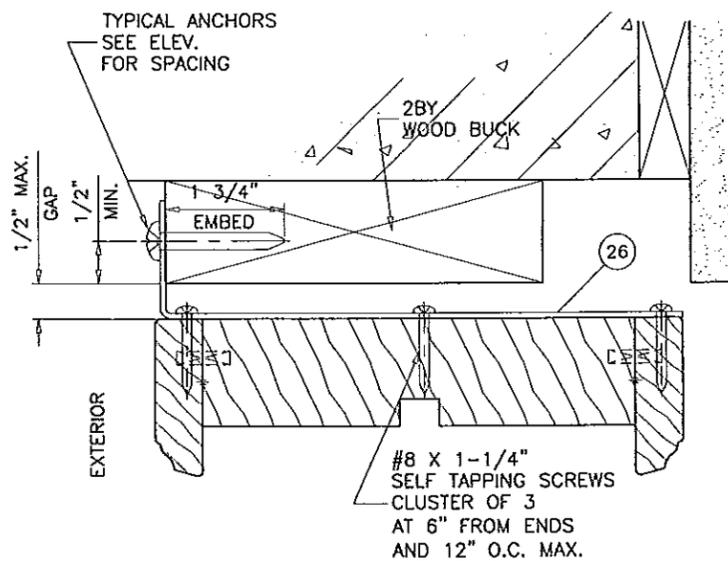
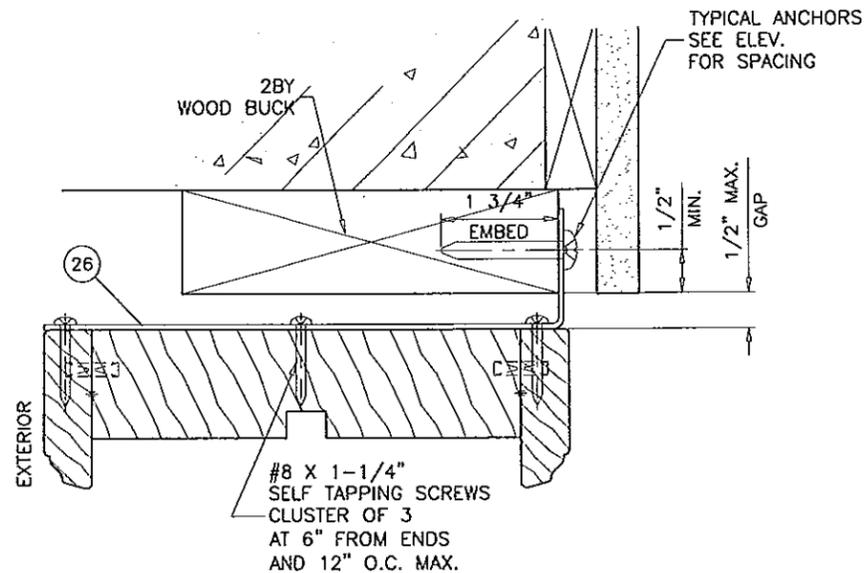
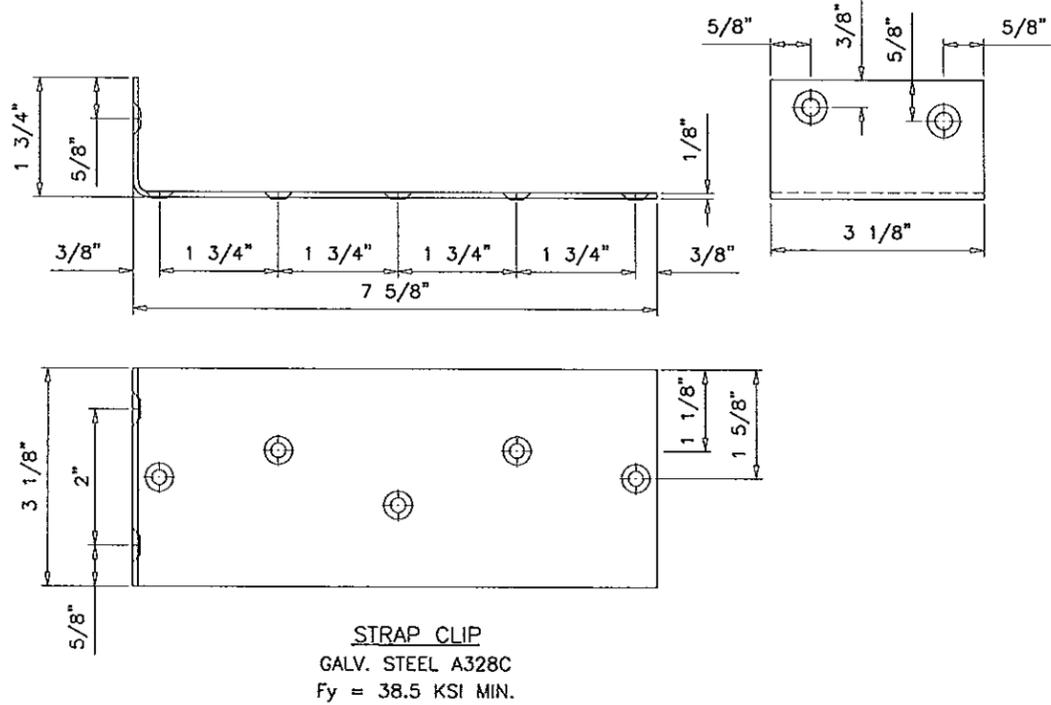
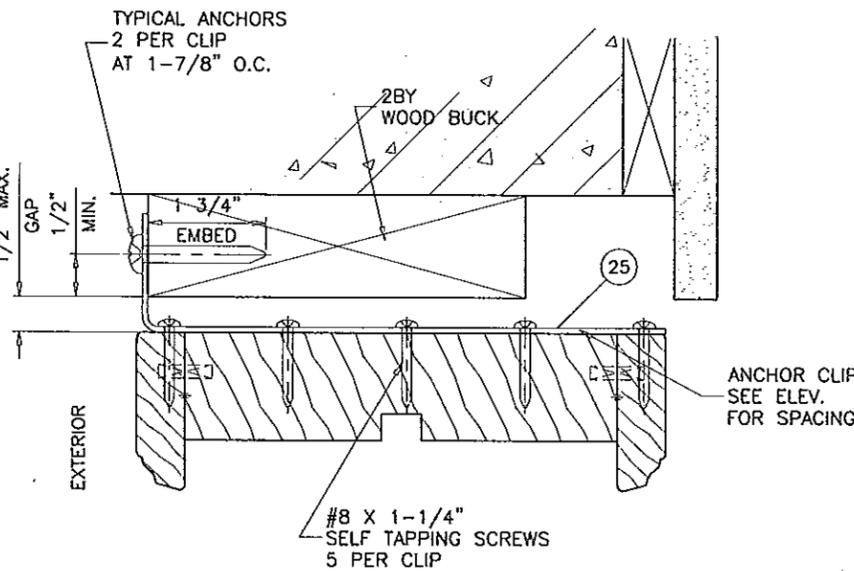
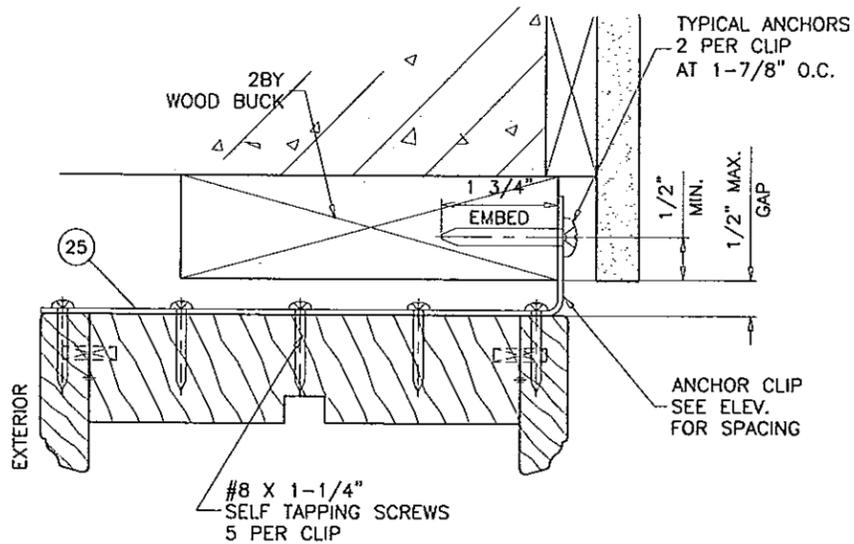


TYPICAL ANCHORS
 SEE ELEV. FOR SPACING

METAL
 STRUCTURE

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
MAR 26 2013

Approved as complying with the
 Florida Building Code
 Date: Apr 4 2013
 NOA# 12-1219-03
 Miami Dade Product Control
 By: Manuel Perez



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
ANCHORS THRU STRAP CLIPS & CONT. ANGLE
 #14 SMS (GRADE 2 CRS)
 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1-3/4" MIN. PENETRATION INTO WOOD
ANCHOR EDGE DISTANCES
 INTO WOOD STRUCTURE = 3/4" MIN.

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
MAR 26 2013

Approved as complying with the
 Florida Building Code
 Date: April 4, 2013
 NOAH 12-1219-03
 Miami Dade Product Control
 By: *[Signature]*

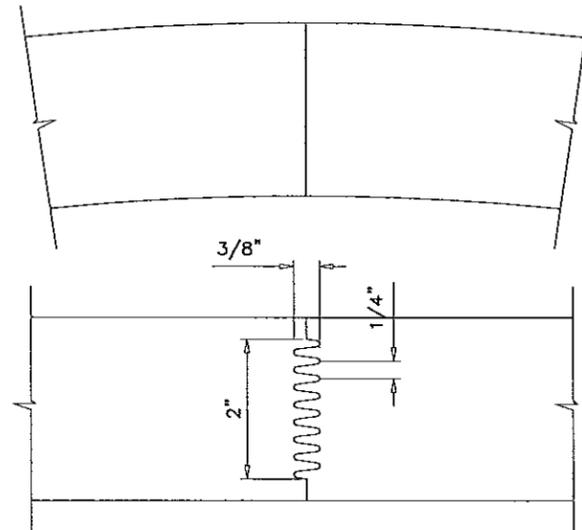
afC
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W12-54MNA

WOOD FRAME SINGLE/DOUBLE HUNG WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
 1249 STIRLING ROAD, STE. 14
 DANIA BEACH, FL 33004
 TEL. (866) 562-1728 FAX. (866) 563-1728

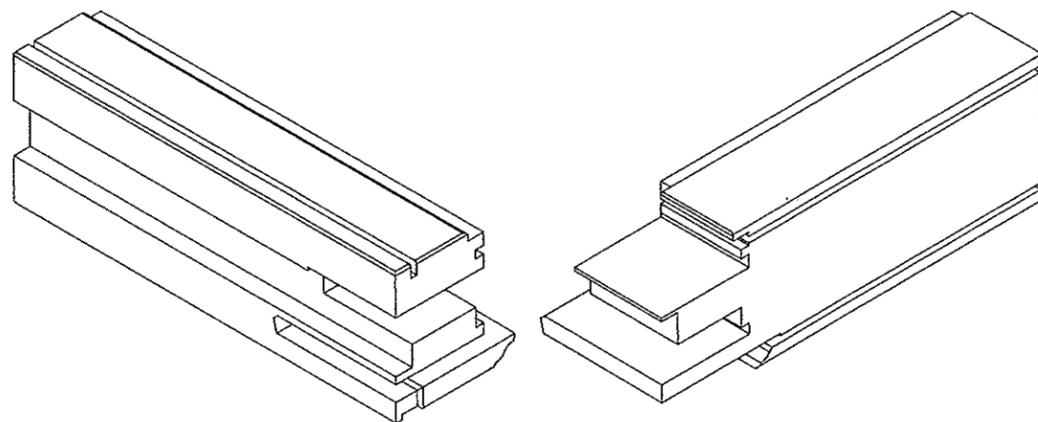
no.	date	by	description
A	03.07.13		REV. PER COMMENTS

date: 10-10-12
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W12-54
 sheet 7 of 11



CIRCULAR WINDOWS
FINGER JOINT



RECT. OR SQUARE WINDOWS
MORTISE AND TENON JOINT

VENT CORNERS

FRAME CORNERS SEALED/GLUED WITH
WATER PROOF ADHESIVE

ITEM #	PART NO.	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	1	FRAME HEAD	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
2	-	1	EXTERIOR SILL	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
2A	-	1	INTERIOR SILL	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
2B	-	1	SILL COVER EXTERIOR	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
3	-	2	FRAME JAMB	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
3A	-	2	JAMB COVER	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
3B	-	4	JAMB COVER INTERIOR/EXTERIOR	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
3C	-	2	JAMB POCKET FILLER	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
4	-	1	TOP SASH TOP RAIL	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
5	-	1	TOP SASH BOTTOM RAIL	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
5A	-	1	RAIL EXTENSION	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
6	-	1	BOTTOM SASH TOP RAIL	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
7	-	1	BOTTOM SASH BOTTOM RAIL	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
8	-	2	SASH JAMB	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
9	-	AS REQD.	GLAZING STOP LAMINATED GLASS	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
9A	-	AS REQD.	GLAZING STOP LAM. INSUL. GLASS	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
10	-	AS REQD.	SASH STOP AT EXTERIOR/INTERIOR	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
11	-	AS REQD.	SASH STOP AT CENTER	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
12	-	AS REQD.	SASH STOP AT SILL	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
13	-	2	SASH STOP AT JAMB	WHITE MERANTI WOOD	SG = 0.46 (E=1,600,000 PSI)
13A	#4 X 2-3/4"	AS REQD.	SASH STOP FASTENERS	STEEL	-
14	-	2	MTG. RAIL REINFORCING	GALV. STEEL	Fy = 36 KSI MIN.
14A	#8 X 1-1/2"	AS REQD.	MTG. RAIL REINFORCING FASTENERS	STEEL	FH WOOD SCREWS
15	-	AS REQD.	HORIZONTAL MULLION REINFORCING	GALV. STEEL	Fy = 36 KSI MIN.
15A	#7 X 1"	AS REQD.	HORIZONTAL MULLION FASTENERS	STEEL	FH WOOD SCREWS
16	-	AS REQD.	VERTICAL MULLION REINFORCING	GALV. STEEL	Fy = 36 KSI MIN.
16A	#7 X 1"	AS REQD.	VERTICAL MULLION FASTENERS	STEEL	FH WOOD SCREWS
16B	M10X25	AS REQD.	VERTICAL MULLION FASTENERS	STEEL	MACHINE SCREWS
17	-	2	EXTERIOR CHANNEL	ALUMINUM	-
18	-	-	INTERIOR ANGLE	ALUMINUM	-
18A	#4 X 3/8"	-	ANGLE FASTENER	STEEL	FH WOOD SCREW
19	QL-3037	AS REQD.	SASH W'STRIPPING GASKET	PU-PE-PP	SCHLEGEL
20	HH0134	AS REQD.	SASH W'STRIPPING GASKET	EPDM	-
21	-	-	-	-	-
22	SP300BB RE	2	SASH PULLEY	BRONZE	PHELPS CO.
23	LKF18	2/ VENT	SASH LOCK, AT 12" FROM EACH END	BRONZE	PHELPS CO.
24	-	-	BALANCE WEIGHT	LEAD	-
25	-	AS REQD.	STRAP CLIP	STEEL	-
26	-	AS REQD.	CONT. ANGLE	STEEL	-

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

MAR 26 2013

Approved as complying with the
Florida Building Code
Date: April 4 2013
NOA# 12-1219-03
Miami Dade Product Control

By: *Samuel Perez*

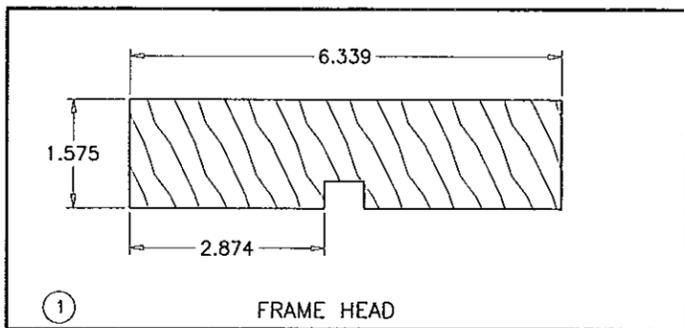
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-54MNA

WOOD FRAME SINGLE/DOUBLE HUNG WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
1249 STIRLING ROAD, STE. 14
DANIA BEACH, FL 33004
TEL. (866) 562-1728 FAX. (866) 563-1728

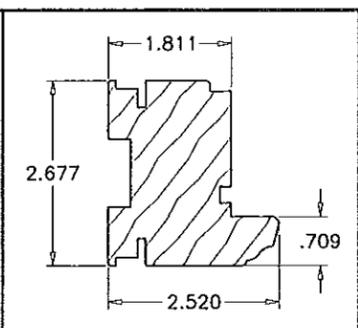
no	date	by	description
A	03.07.13		REV. PER RER COMMENTS

date: 10-10-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

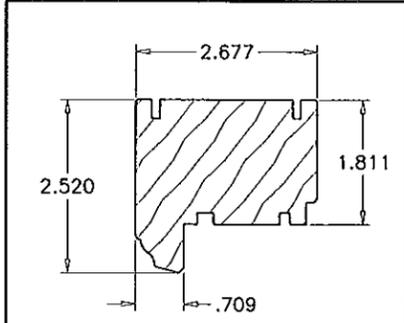
drawing no.
W12-54
sheet 8 of 11



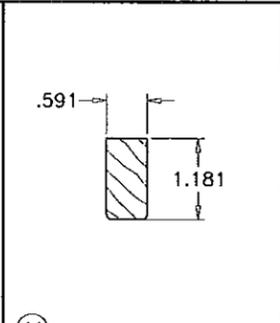
① FRAME HEAD



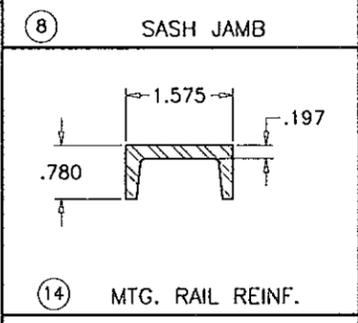
⑧ SASH JAMB



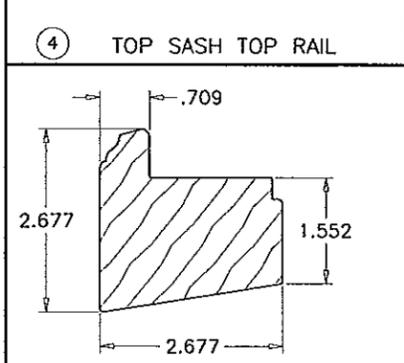
④ TOP SASH TOP RAIL



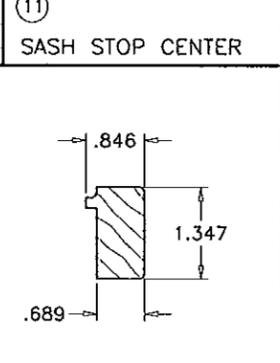
⑪ SASH STOP CENTER



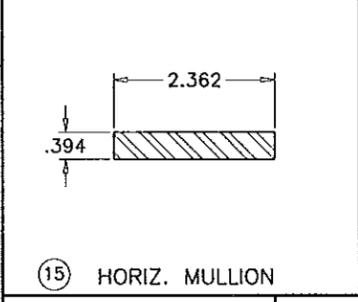
⑭ MTG. RAIL REINF.



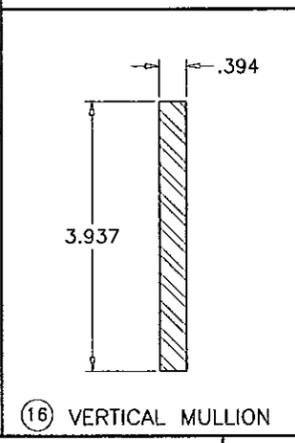
⑤ TOP SASH BOTTOM RAIL



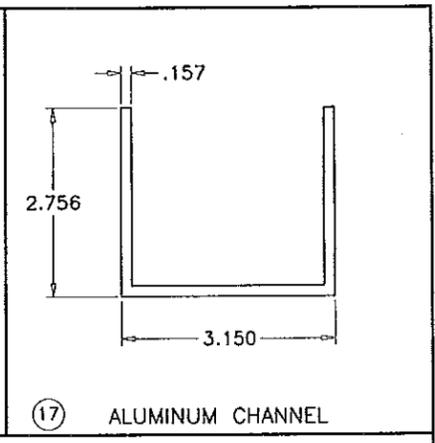
⑤A RAIL EXTENSION



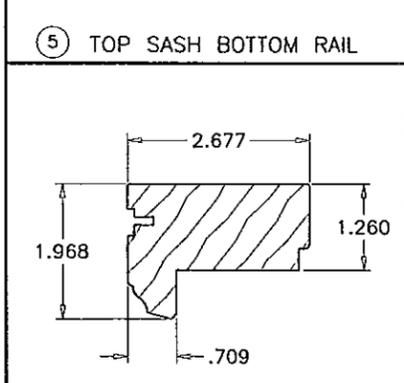
⑮ HORIZ. MULLION



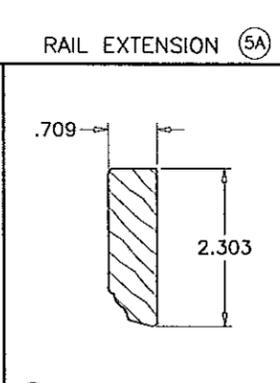
⑯ VERTICAL MULLION



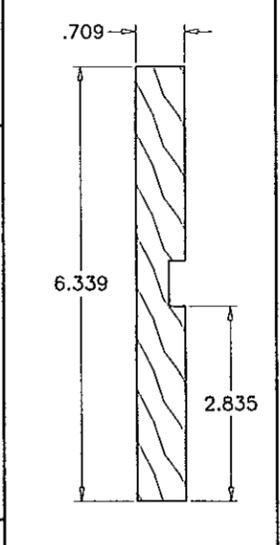
⑰ ALUMINUM CHANNEL



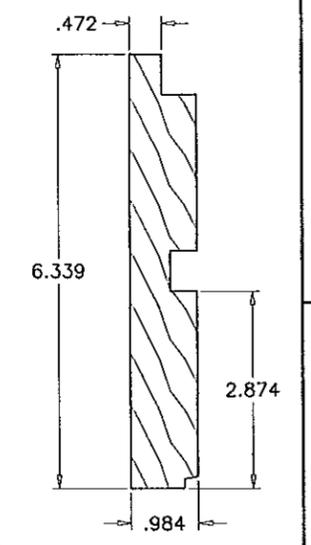
⑥ BOTTOM SASH TOP RAIL



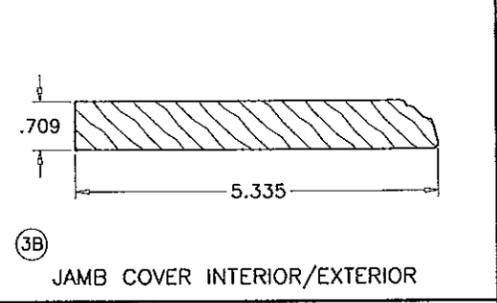
⑩ SASH STOP EXTERIOR/INTERIOR



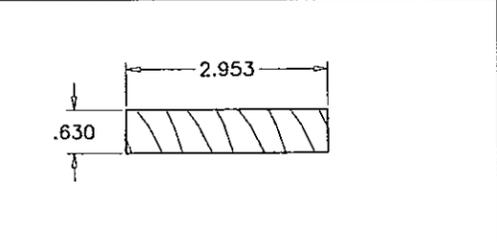
③A JAMB COVER



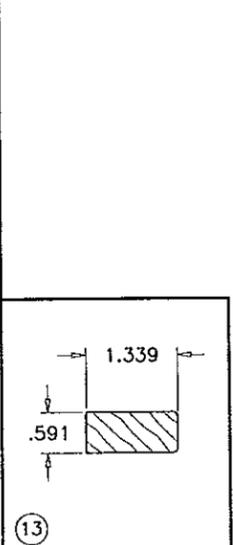
③ FRAME JAMB



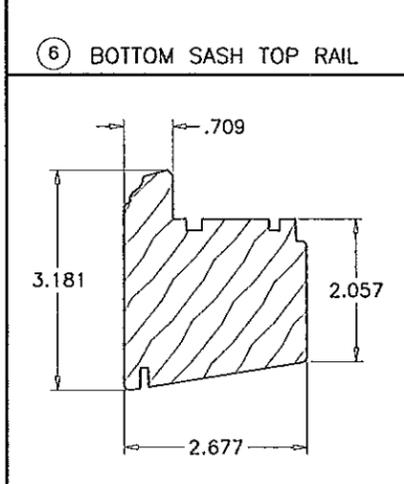
③B JAMB COVER INTERIOR/EXTERIOR



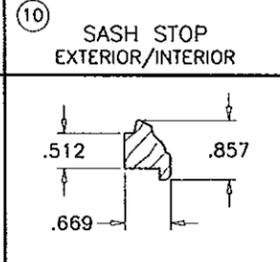
③C JAMB POCKET FILLER



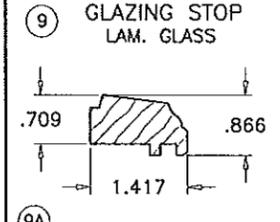
⑬ SASH STOP JAMB



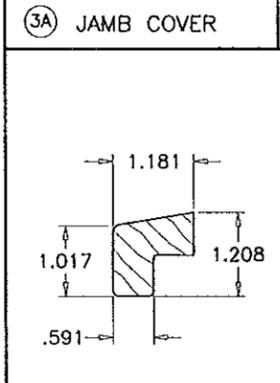
⑦ BOTTOM SASH BOTTOM RAIL



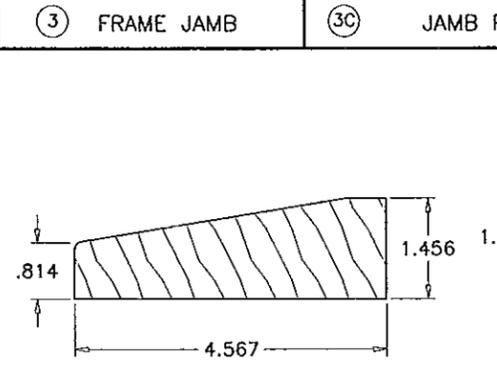
⑨ GLAZING STOP LAM. GLASS



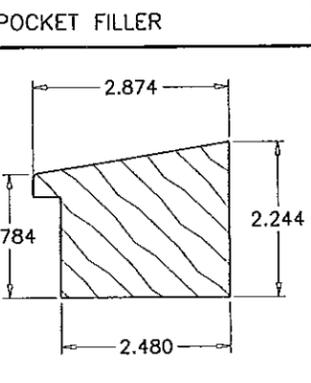
⑨A GLAZING STOP LAM. INSUL. GLASS



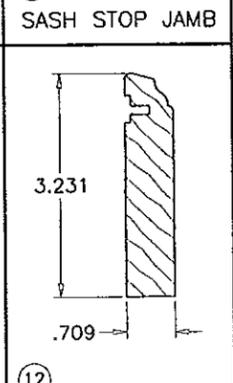
②B SILL COVER EXTERIOR



② EXTERIOR SILL



②A INTERIOR SILL



⑫ SASH STOP SILL

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

MAR 26 2013

Approved as complying with the
Florida Building Code
Date: April 4, 2013
NOA# 12E1219.03
Miami Dade Product Control

By: *[Signature]*

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-54MNA

WOOD FRAME SINGLE/DOUBLE HUNG WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
1249 STIRLING ROAD, STE. 14
DANIA BEACH, FL 33004
TEL. (866) 562-1728 FAX. (866) 563-1728

no	date	description
A	03.07.13	NO CHANGE THIS SHEET

revisions:

date: 10-10-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

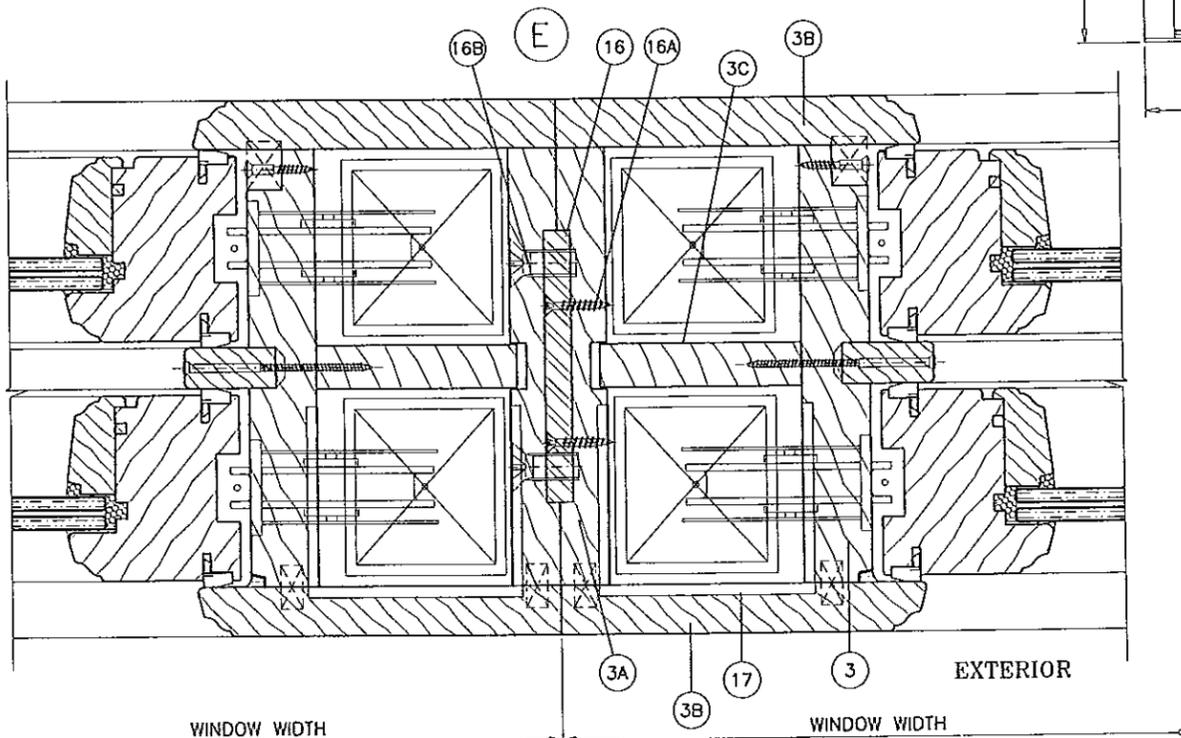
drawing no.
W12-54

sheet 9 of 11

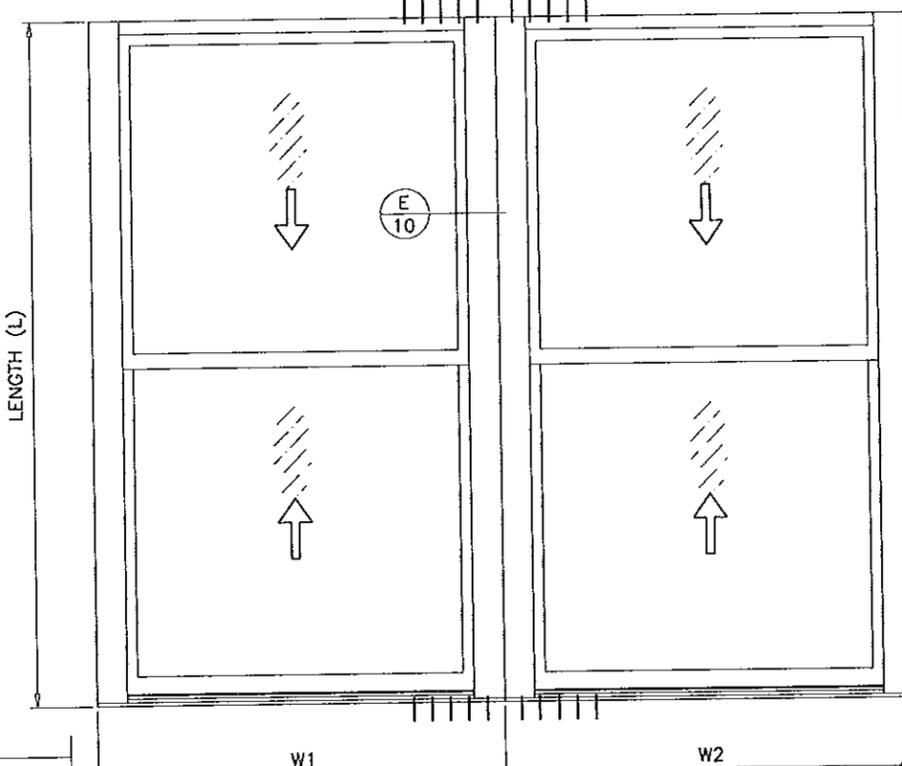
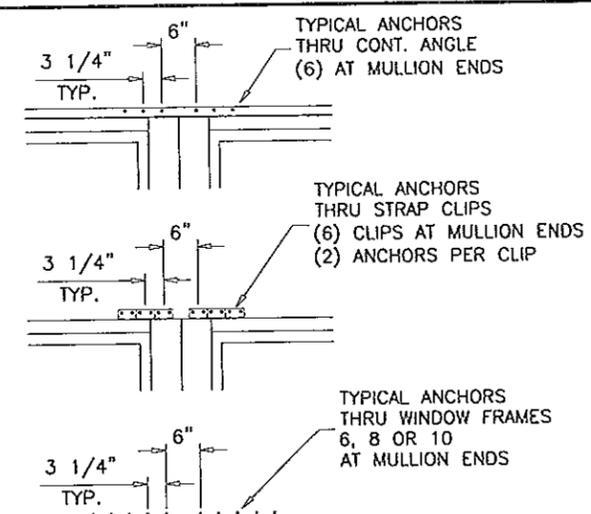
MULLION LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS THRU WINDOW FRAME			6 CLIPS OR 6 ANCHORS THRU CONT. ANGLE
		6 ANCHORS	8 ANCHORS	10 ANCHORS	
WIDTH (W)	LENGTH (L)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
42"	90"	75.0	75.0	75.0	75.0
48"		75.0	75.0	75.0	75.0
54"		75.0	75.0	75.0	75.0
60"		75.0	75.0	75.0	75.0
66"		75.0	75.0	75.0	75.0
72"		75.0	75.0	75.0	75.0
42"	96"	75.0	75.0	75.0	75.0
48"		75.0	75.0	75.0	75.0
54"		75.0	75.0	75.0	75.0
60"		74.8	75.0	75.0	75.0
66"		71.3	75.0	75.0	75.0
72"		68.6	75.0	75.0	75.0
42"	102"	75.0	75.0	75.0	75.0
48"		75.0	75.0	75.0	75.0
54"		73.2	75.0	75.0	75.0
60"		68.6	75.0	75.0	75.0
66"		65.1	75.0	75.0	75.0
72"		62.4	75.0	75.0	75.0
42"	108"	75.0	75.0	75.0	75.0
48"		73.5	75.0	75.0	75.0
54"		67.8	75.0	75.0	75.0
60"		63.3	75.0	75.0	75.0
66"		59.9	75.0	75.0	75.0
72"		57.2	75.0	75.0	75.0
42"	114"	75.0	75.0	75.0	75.0
48"		68.6	75.0	75.0	75.0
54"		63.1	75.0	75.0	75.0
60"		58.8	75.0	75.0	75.0
66"		55.4	73.9	75.0	75.0
72"		52.8	70.4	75.0	75.0
42"	120"	71.3	75.0	75.0	75.0
48"		64.3	75.0	75.0	75.0
54"		59.0	75.0	75.0	75.0
60"		54.9	73.2	75.0	75.0
66"		51.6	68.8	75.0	75.0
72"		49.0	65.3	75.0	75.0

NOTES:

1. USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
2. FOR SINGLE/DOUBLE HUNG WINDOW CAPACITY SEE SHEET 2 & 3.
3. LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.



TOTAL PROPERTIES (WOOD)
 Ix = 227.7464 IN⁴
 Sx = 58.7733 IN³



TYPICAL ELEVATIONS
 SIDE BY SIDE WINDOWS
 SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

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

Approved as complying with the
 Florida Building Code
 Date: April 4, 2013
 NOA# 1221219.03
 Miami Dade Product Control

MAR 26 2013

By: *Mauro Lopez*

afcc
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\WT2-54MNA

WOOD FRAME SINGLE/DOUBLE HUNG WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
 1249 STIRLING ROAD, STE. 14
 DANIA BEACH, FL 33004
 TEL. (866) 562-1728 FAX. (866) 563-1728

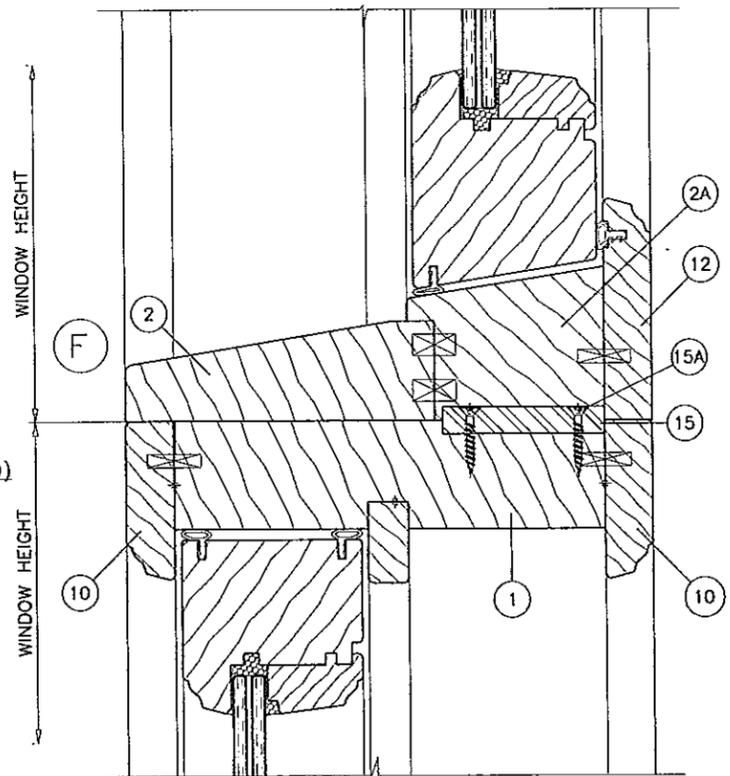
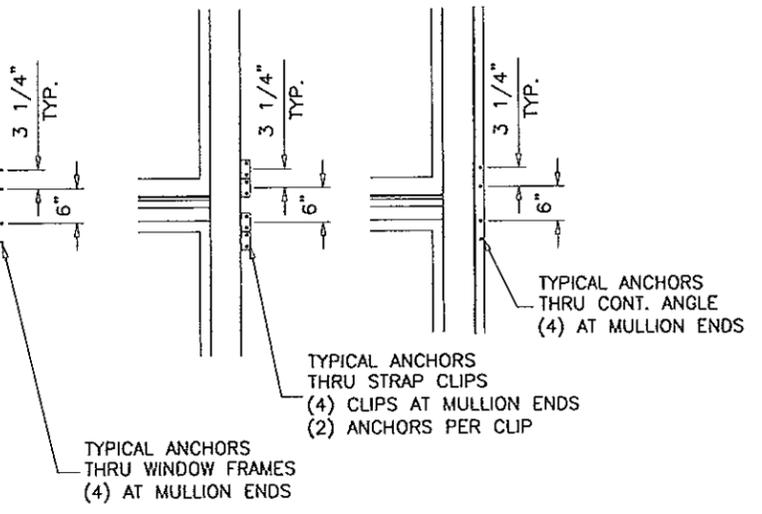
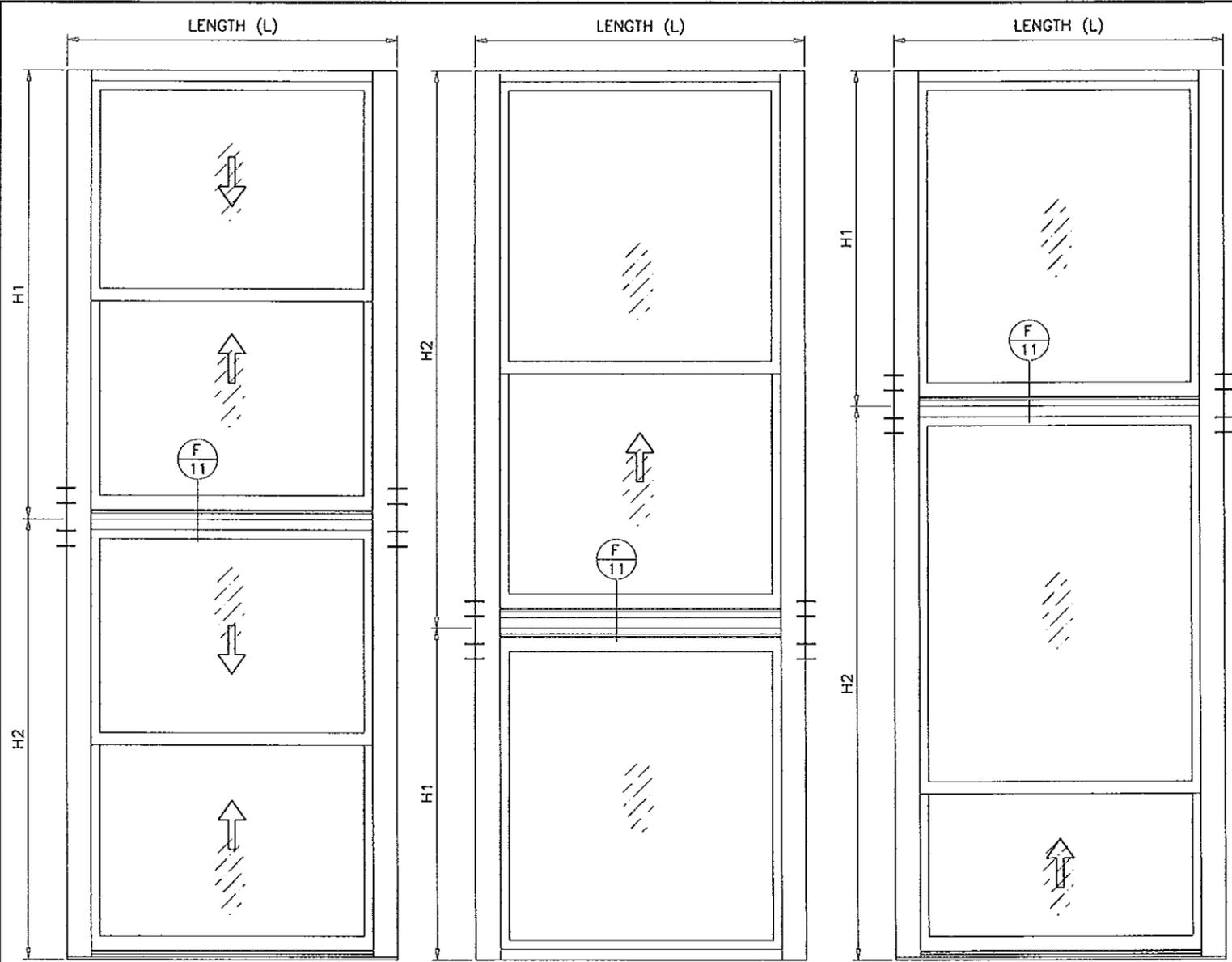
no.	date	by	description
A	03.07.13		REV. PER PER COMMENTS

revisions:

date: 10-10-12
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W12-54

sheet 10 of 11



TYPICAL ELEVATIONS
 TOP AND BOTTOM WINDOWS
 TOP AND BOTTOM APPLIES TO TWO OR MORE WINDOWS

$$\text{HEIGHT (H)} = \frac{H1 + H2}{2}$$

MULLION LOAD CAPACITY - PSP		
WINDOW DIMS.		EXT. (+)
HEIGHT (H)	LENGTH (L)	INT. (-)
192"	72"	75.0

TOTAL PROPERTIES (WOOD)
 Ix = 65.8706 IN⁴
 Sx = 19.3226 IN³

- NOTES:**
- USE CHART ON THIS SHEET FOR TOP & BOTTOM CONNECTION CAPACITY OF WINDOW MULLION.
 - FOR SINGLE/DOUBLE HUNG WINDOW CAPACITY SEE SHEET 2 & 3.
 - LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.

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

MAR 26 2013

Approved as complying with the
 Florida Building Code
 Date APR 4 2013
 NOA# 12-1219-03
 Miami Dade Product Control

By: *Manuel Perez*

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\W12-54MNA

WOOD FRAME SINGLE/DOUBLE HUNG WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
 1249 STIRLING ROAD, STE. 14
 DANIA BEACH, FL 33004
 TEL. (866) 562-1728 FAX. (866) 563-1728

no	date	by	description
A	03.07.13		REV PER PER COMMENTS

date: 10-10-12
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W12-54
 sheet 11 of 11