



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

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

**NOTICE OF ACCEPTANCE (NOA)**

**Curv-A-Tech Corporation  
930 W. 23<sup>rd</sup> Street  
Hialeah, FL 33010**

**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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Series 400 Aluminum Horizontal Sliding Window**

**APPROVAL DOCUMENT:** Drawing No. W97-31, titled "Series 400 Horiz. Sliding Window with Louvers", sheets 1 through 4 of 4, dated 10/6/97 with revision E dated 3/6/03, prepared by Al Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: None**

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

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

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

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

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

This NOA **revises and renews** NOA # 00-0327.12 and consists of this page 1 as well as approval document mentioned above.

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



**NOA No 03-0320.14  
Expiration Date: April 17, 2008  
Approval Date: April 24, 2003  
Page 1**

**Curv-A-Tech Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

(For File ONLY. Not part of NOA)

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W97-31**, titled "Series 400 Horiz. Sliding Window with Louvers", sheets 1 through 4 of 4, dated 10/6/97 with revision E dated 3/6/03, prepared by Al Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

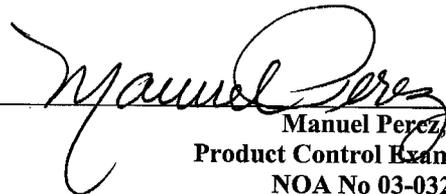
**B. TESTS**

***Submitted under NOA# 00-0327.12***

1. Test reports on
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1386**, dated July 11, 1996, reissued 07/25/96 and a revision letter dated July 15, 1998, all signed and sealed by Gilbert Diamond, P.E.
2. Test reports on
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1364**, dated February 1, 1996, reissued 07/25/96 and a revision letter dated July 15, 1998, all signed and sealed by Gilbert Diamond, P.E.

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis and Comparative analysis prepared Al-Farooq Corporation, dated 1/25/03, signed and sealed by Humayoun Farooq, P.E.  
***Submitted under NOA# 00-0327.12***
2. Anchor Calculations and structural analysis and Comparative analysis prepared Al-Farooq Corporation, dated 10/03/97, signed and sealed on 10/15/97 by Humayoun Farooq, P.E.



Manuel Perez, P.E.  
Product Control Examiner  
NOA No 03-0320.14  
Expiration Date: April 17, 2008  
Approval Date: April 24, 2003

**Curv-A-Tech Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

(For File ONLY. Not part of NOA)

**D. MATERIAL CERTIFICATIONS**

1. None.

**D. STATEMENTS**

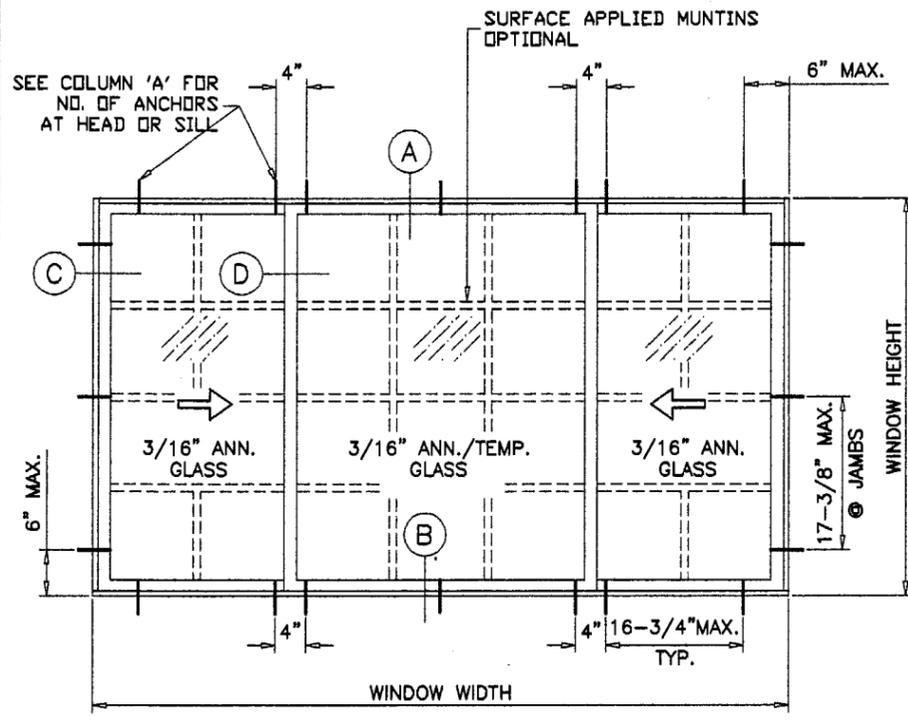
1. None

**F. OTHER**

1. Notice of Acceptance No. **00-0327.12**, Curv-A-Tech Corporation, Series "400"  
Aluminum Horizontal Window, approved on 6/2/00 and expiring on 4/17/03.

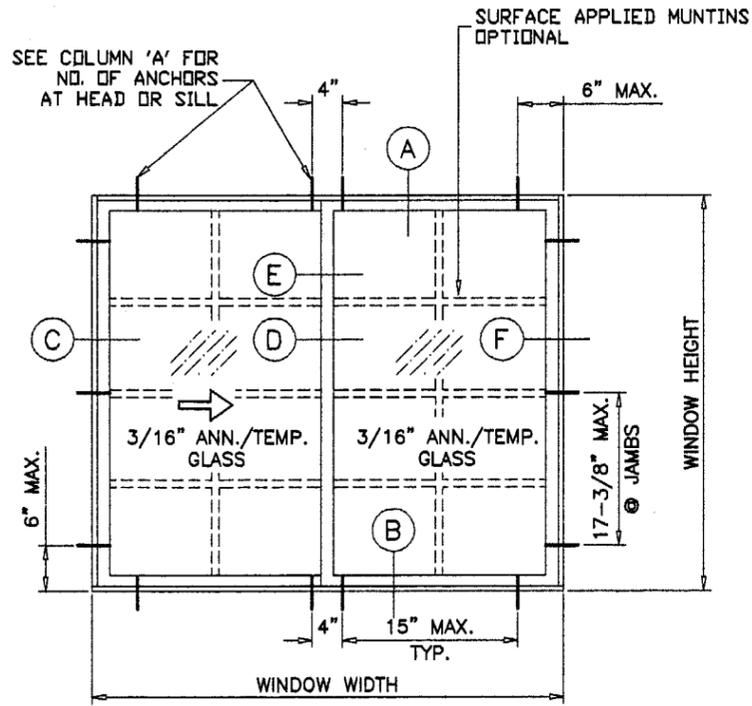


Manuel Perez, P.E.  
Product Control Examiner  
NOA No 03-0320.14  
Expiration Date: April 17, 2008  
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TYPICAL ELEVATION (XOX)

OPERATING VENTS TO BE ±1/4 THE WIDTH OF THE WINDOW



TYPICAL ELEVATION (XO OR OX ONLY)

DESIGN LOAD CAPACITY - PSF						
HEAVY DUTY MEETING RAILS XOX SIZES ONLY						
WINDOW DIMS.		A	3/16"-ANN. GLASS		3/16"-TEMP. GLASS *	
WIDTH	HEIGHT		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
72"	24"	7	60.7	116.5	60.7	125.0
84"		8	60.7	99.2	60.7	125.0
96"		10	60.7	87.9	60.7	125.0
108"		10	60.7	83.2	60.7	125.0
120"		11	60.7	78.6	60.7	125.0
72"	36"	7	60.7	73.8	60.7	99.6
84"		8	60.7	64.0	60.7	97.5
96"		10	55.8	55.8	60.7	99.8
108"		10	47.6	47.6	60.7	88.5
120"		11	42.9	42.9	60.7	80.7
72"	48"	7	55.8	55.8	60.7	74.7
84"		8	50.4	50.4	60.7	73.1
96"		10	48.3	48.3	60.7	70.8
108"		10	43.1	43.1	60.7	65.1
120"		11	37.1	37.1	59.6	59.6
72"	60"	7	42.9	42.9	58.8	58.8
84"		8	42.6	42.6	53.3	53.3
96"		10	37.1	37.1	49.6	49.6
108"		10	34.4	34.4	47.0	47.0
120"		11	32.0	32.0	45.0	45.0
74"	26"	7	60.7	100.5	60.7	125.0
106-1/4"		10	60.7	70.1	60.7	125.0
74"	38-3/8"	7	60.7	68.2	60.7	90.9
106-1/4"		10	48.7	48.7	60.7	84.5
74"	50-5/8"	7	52.2	52.2	60.7	68.9
106-1/4"		10	41.1	41.1	60.7	62.6
74"	63"	7	40.1	40.1	51.1	51.1
106-1/4"		10	33.4	33.4	40.0	40.0

A = ANCHORS PER HEAD & SILL  
\* TEMP. GLASS REQ'D. AT FIXED LITE ONLY

**SERIES-400 ALUMINUM HORIZ. ROLLING WINDOWS  
COMPARATIVE ANALYSIS CHART**

BASED ON FTL-1386 DATED 7-7-96  
TEST SIZE = 118" X 60" (XOX)  
TEST LOADS = +67.5, -67.5 PSF  
DESIGN LOADS = +45.0, -45.0 PSF  
WATER INFILTRATION TEST = 9.1 PSF  
TESTED GLASS = 3/16"-ANNEALED  
H.D. MEETING RAILS

BASED ON FTL-1364 DATED 2-1-96  
TEST SIZE = 72" X 48" (XO)  
TEST LOADS = +91.0, -91.0 PSF  
DESIGN LOADS = +60.7, -60.7 PSF  
WATER INFILTRATION TEST = 9.1 PSF  
TESTED GLASS = 3/16"-ANNEALED  
STANDARD MEETING RAILS

DESIGN LOAD CAPACITY - PSF										
			STD. MEETING RAILS XO OR OX SIZES ONLY				H. D. MEETING RAILS XO OR OX SIZES ONLY			
WINDOW DIMS.		A	3/16"-ANN. GLASS		3/16"-TEMP. GLASS		3/16"-ANN. GLASS		3/16"-TEMP. GLASS	
WIDTH	HEIGHT		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24"	24"	4	60.7	125.0	60.7	125.0	60.7	125.0	60.7	125.0
36"		4	60.7	125.0	60.7	125.0	60.7	125.0	60.7	125.0
48"		6	60.7	125.0	60.7	125.0	60.7	125.0	60.7	125.0
60"		6	60.7	125.0	60.7	125.0	60.7	125.0	60.7	125.0
72"		6	60.7	110.1	60.7	110.1	60.7	125.0	60.7	125.0
24"	36"	4	60.7	125.0	60.7	125.0	60.7	125.0	60.7	125.0
36"		4	60.7	113.8	60.7	113.8	60.7	113.8	60.7	113.8
48"		6	60.7	102.6	60.7	102.6	60.7	123.9	60.7	123.9
60"		6	60.7	82.3	60.7	82.3	60.7	102.4	60.7	102.4
72"		6	60.7	70.5	60.7	70.5	60.7	85.3	60.7	85.3
24"	48"	4	60.7	125.0	60.7	125.0	60.7	125.0	60.7	125.0
36"		4	60.7	85.3	60.7	85.3	60.7	85.3	60.7	85.3
48"		6	60.7	74.8	60.7	74.8	60.7	82.6	60.7	82.6
60"		6	60.7	60.7	60.7	60.7	60.7	72.1	60.7	72.1
72"		6	54.3	54.3	54.3	54.3	60.7	64.0	60.7	64.0
24"	60"	4	60.7	74.4	60.7	102.4	60.7	102.4	60.7	102.4
36"		4	50.6	50.6	60.7	68.3	60.7	68.3	60.7	68.3
48"		6	39.0	39.0	60.7	62.0	60.7	62.0	60.7	62.0
60"		6	X	X	45.5	45.5	52.9	52.9	52.9	52.9
72"		6	X	X	41.8	41.8	47.2	47.2	47.2	47.2
28-1/2"	26"	4	60.7	125.0	60.7	125.0	60.7	125.0	60.7	125.0
37"		4	60.7	125.0	60.7	125.0	60.7	125.0	60.7	125.0
53-1/8"		6	60.7	125.0	60.7	125.0	60.7	125.0	60.7	125.0
74"		6	60.7	95.6	60.7	95.6	60.7	115.0	60.7	115.0
28-1/2"	38-3/8"	4	60.7	125.0	60.7	125.0	60.7	125.0	60.7	125.0
37"		4	60.7	103.9	60.7	103.9	60.7	103.9	60.7	103.9
53-1/8"		6	60.7	86.3	60.7	86.3	60.7	107.1	60.7	107.1
74"		6	60.7	65.6	60.7	65.6	60.7	77.9	60.7	77.9
28-1/2"	50-5/8"	4	60.7	109.9	60.7	109.9	60.7	109.9	60.7	109.9
37"		4	60.7	78.7	60.7	78.7	60.7	78.7	60.7	78.7
53-1/8"		6	60.7	61.7	60.7	63.8	60.7	72.0	60.7	72.0
74"		6	49.7	49.7	50.8	50.8	60.1	59.0	60.1	59.0
28-1/2"	63"	4	58.3	58.3	60.7	88.3	60.7	88.3	60.7	88.3
37"		4	42.4	42.4	60.7	63.3	60.7	63.3	60.7	63.3
53-1/8"		6	30.7	30.7	49.8	49.8	51.6	51.6	51.6	51.6
74"		6	X	X	39.0	39.0	39.8	39.8	39.8	39.8

A = ANCHORS PER HEAD & SILL

**NOTES:**

- THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE. ALSO FOR WIND LOADS AS PER ASCE 7-88, ASCE 7-93, ASCE 7-95 OR ASCE 7-98 AS REQUIRED BY PREVAILING BUILDING CODE.
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538  
  
MAX 12 2003

Approved as complying with the  
Florida Building Code  
Date APRIL 24 2003  
NOA# 03-0320-14  
Miami Dade Product Control  
Division  
By *Muhammad Farooq*

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL W97-31CC

**SERIES 400 HORIZ. SLIDING WINDOW**

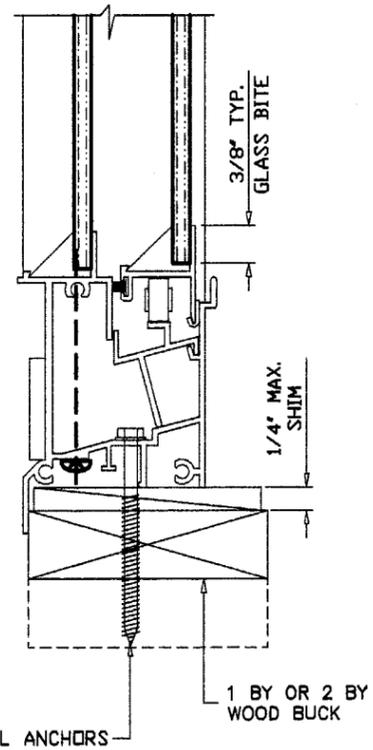
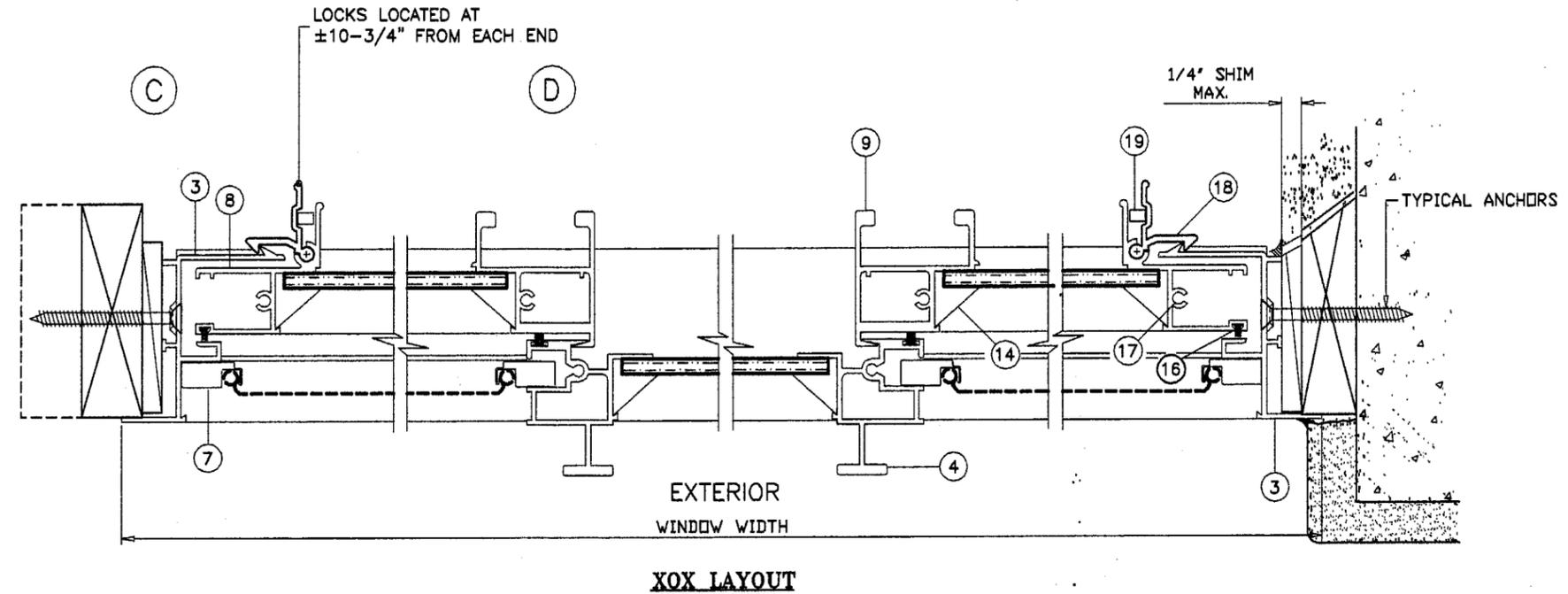
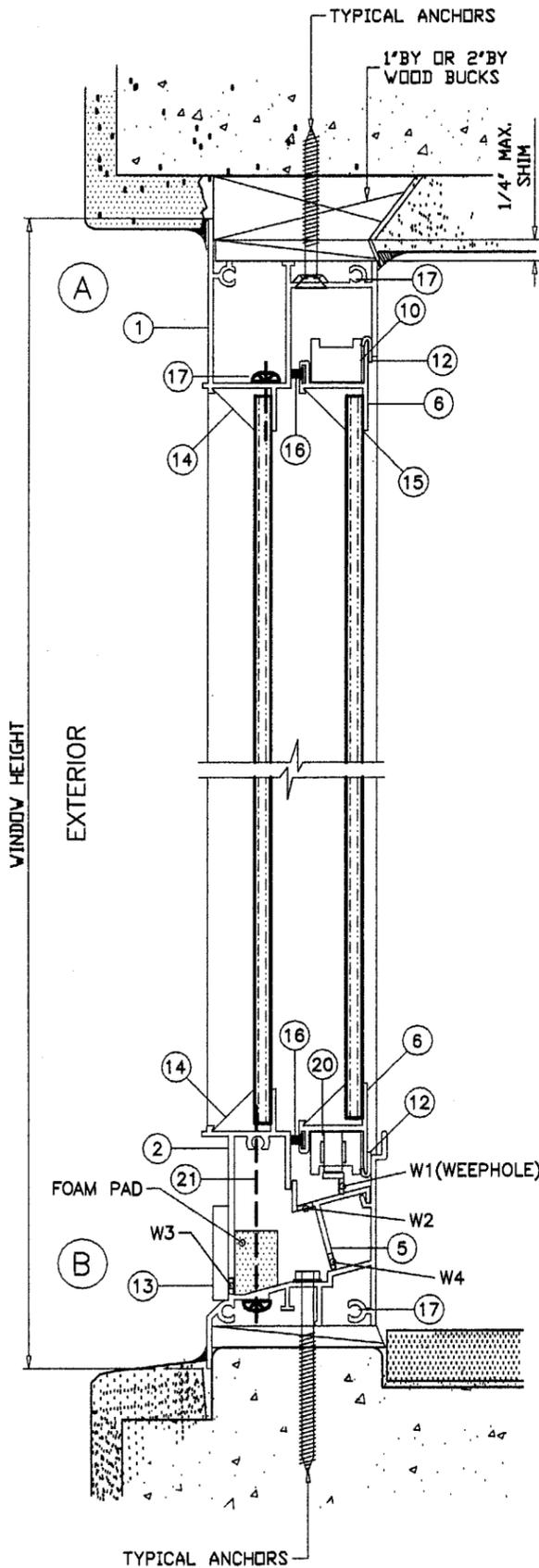
**CURV-A-TECH CORPORATION**  
930 W. 23rd STREET  
HIALEAH, FL 33010  
TEL (305) 888-9631 FAX (305) 888-9969

no	date	description
A	6.19.98	NOTES & DETAILS ADDED
B	7.15.98	LOAD TABLE REVISED
C	8.24.98	WEEP NOTCHES REVISED
D	1.14.03	CHART REV. PER ASTM E-1300
E	3.06.03	3/16" TEMP. GLASS ADDED

date: 10-06-97  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no. **W97-31**  
sheet 1 of 4

WOOD BUCKS NOT BY CURV-A-TECH, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



**TYPICAL ANCHORS:**

- A. INTO 2" BY WOOD BUCKS  
3/16" DIA. TAPCONS WITH 1-3/8" MIN. PENETRATION INTO WOOD
- B. INTO 1" BY WOOD BUCKS OR INTO MASONRY  
3/16" DIA. TAPCONS WITH 1-1/4" MIN. EMBED INTO MASONRY

**GLAZING METHOD:**

EXTERIOR GLAZED, 3/8" TYP. GLASS BITE, USING SILICONE BEDDING COMPOUND NO. OSI HM-270 AND ROLL FORMED ALUMINUM BEAD.

**SEALANTS:**

ALL FRAME CORNERS, FIXED MEETING RAIL AT EACH END, INSTALLATION SCREWS IN SILL AND JAMBS SEALED WITH ALUM COLORED SEALANT.

**WEEPHOLES:**

- W1 - 3/8" NOTCH IN LEG AT EACH END
- W2 - 3/16" X 2" NOTCH 4 PER SILL
- W3 - 3/16" X 2" NOTCH 3 AT XO & OX SIZES  
4 AT XOX SIZES
- OPEN CELL FOAM PAD (1/2" X 3/4" X 3-1/4") AT EACH W3
- W4 - 1/2" X 1/8" NOTCH AT SILL TRACK  
AT 2" & 39-7/8" FROM EACH END (XOX SIZES)  
AT 1-1/4" FROM EACH END (XO OR OX SIZES)

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

MAR 12 2003

Approved as complying with the Florida Building Code  
Date APRIL 24 2003  
NOA# 03-0320-14  
Miami Dade Product Control Division  
By *[Signature]*

*afc*  
**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
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TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W97-31CC

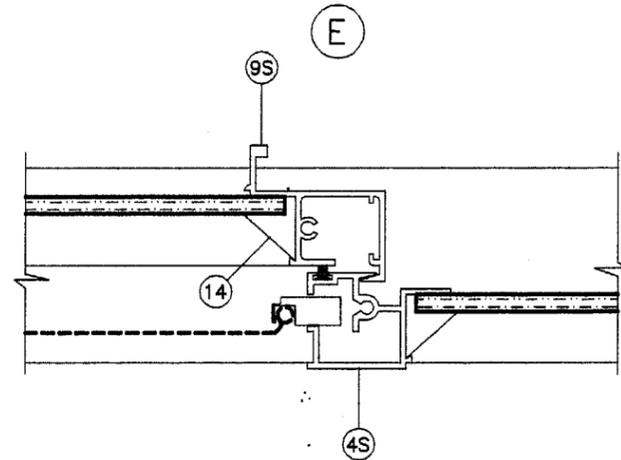
SERIES 400 HORIZ. SLIDING WINDOW  
**CURV-A-TECH CORPORATION**  
930 W. 23rd STREET  
HIALEAH, FL 33010  
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no	date	description
D	1.14.03	NO CHANGE THIS SHEET
E	3.06.03	NO CHANGE THIS SHEET

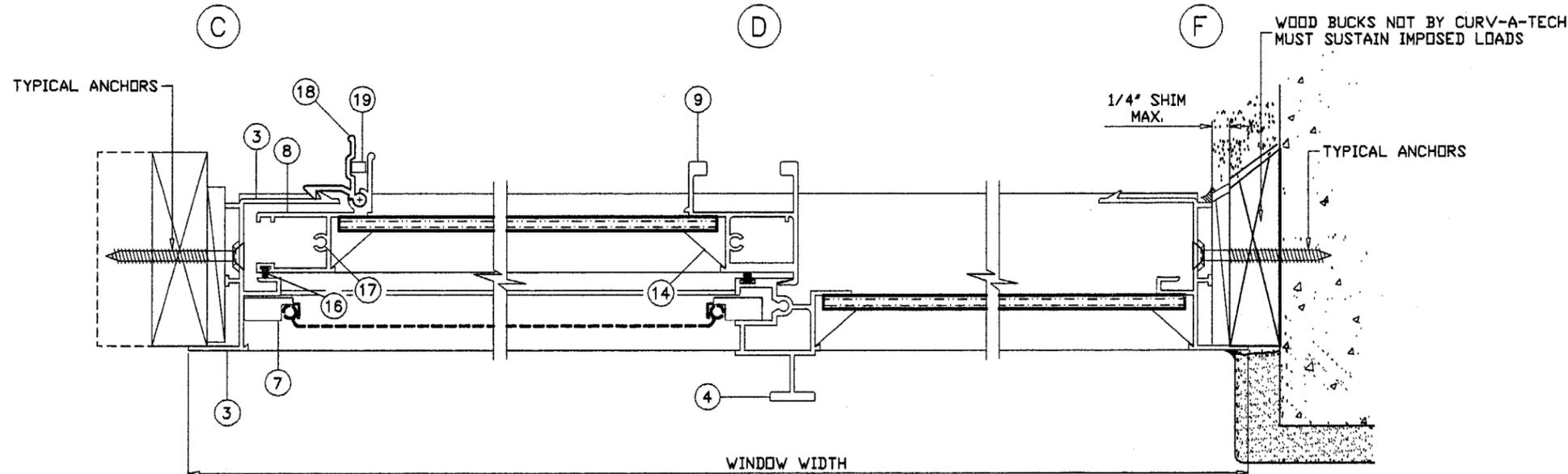
date: 10-06-97  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W97-31**  
sheet 2 of 4

ITEM #	PART #	REQD.	DESCRIPTION	REMARKS
1	10248	1	FRAME HEAD	6063-T5
2	10845	1	FRAME SILL	6063-T5
3	10847	2	FRAME JAMBS	6063-T5
4	11822	1/ VENT	H.D. FIXED MEETING RAIL	6063-T6
4S	10249	1/ VENT	STD. FIXED MEETING RAIL	6063-T6
5	10846	1	SILL TRACK	6063-T5
6	10250	2/ VENT	VENT TOP/BOTTOM RAIL	6063-T6
7	-	1/ VENT	5/16" BOX SCREEN	OPTIONAL
8	10257	2/ VENT	VENT SIDE RAIL	6063-T6
9	11823	1/ VENT	H.D. VENT INTERLOCK RAIL	6063-T6
9S	10256	1/ VENT	STD. VENT INTERLOCK RAIL	6063-T6
10	C-3055	4/ VENT	WHEEL HOUSING & GUIDE	NYLON
11	C-3056	2/ VENT	ROLLER PIN	STAINLESS STEEL
12	C-3085	4/ VENT	VENT FACE GUIDE	NYLON
13	-	2/ WINDOW	WEEPHOLE HOUSING & FLAP	NYLON OR CELCON
14	-	AS REQD.	ALUM GLAZING BEAD	ROLL FORMED ALUMINUM
15	-	AS REQD.	SILICONE GLAZING COMPOUND	DSI HM-270
16	7916-187	AS REQD.	FINSEAL WEATHER STRIP	
17	-	AS REQD.	# 8 X 1" SMSPHP SCREWS	ASSEMBLY SCREWS
18	10255	4	ALUMINUM VENT LATCH	6063-T6
19	C-3081	4	LATCH SPRING CLIP	STAINLESS STEEL
20	C-3057	2/ VENT	BRASS ROLLER	
21	-	1/ VENT	# 8 X 2-1/2" SMS	FIXED RAIL BOTTOM SCREW



**STD. MTG. RAILS**  
(FOR XO OR OX ONLY)



**HEAVY DUTY MTG. RAILS**  
XO LAYOUT  
OX OPPOSITE

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

MAR 18 2003

Approved as complying with the  
Florida Building Code  
Date APRIL 24, 2003  
NOA# 03-0320.14  
Miami Dade Product Control  
Division  
By Manuel Silva

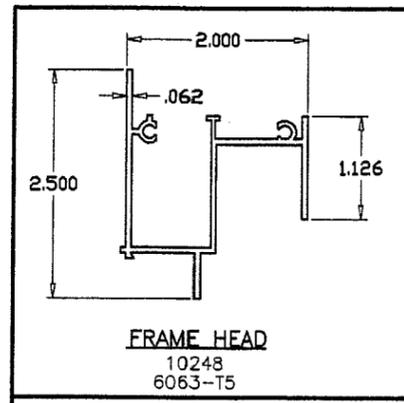
**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
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SERIES 400 HORIZ. SLIDING WINDOW  
**CURV-A-TECH CORPORATION**  
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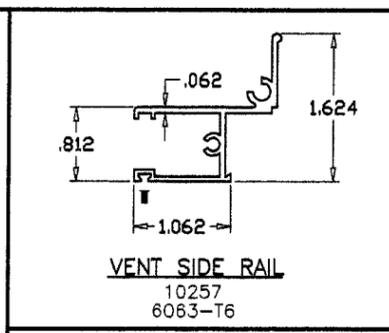
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D	1.14.03	NO CHANGE THIS SHEET
E	3.06.03	NO CHANGE THIS SHEET

date: 10-06-97  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

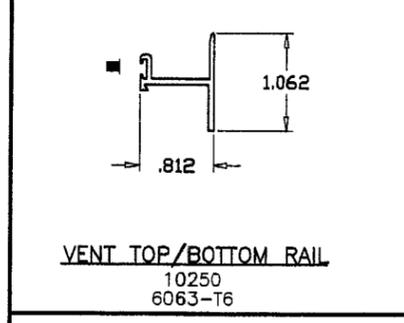
drawing no.  
**W97-31**  
sheet 3 of 4



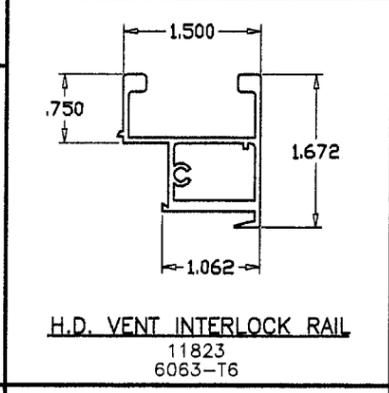
FRAME HEAD  
10248  
6063-T5



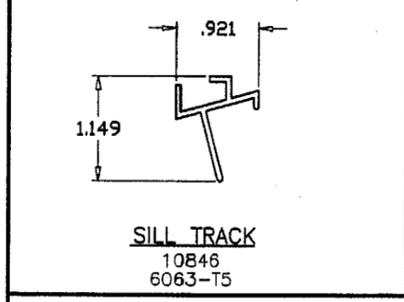
VENT SIDE RAIL  
10257  
6063-T6



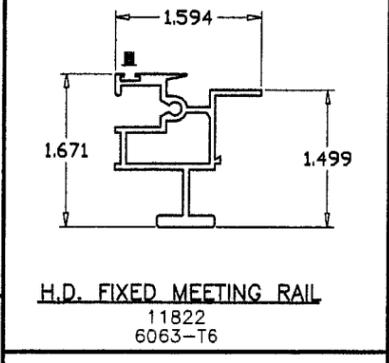
VENT TOP/BOTTOM RAIL  
10250  
6063-T6



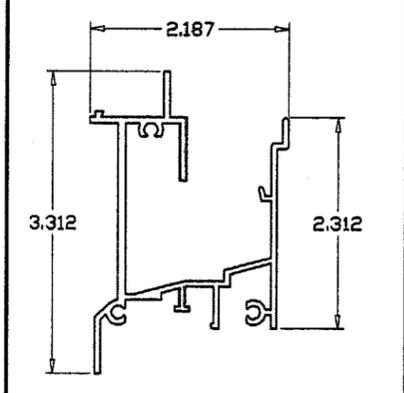
H.D. VENT INTERLOCK RAIL  
11823  
6063-T6



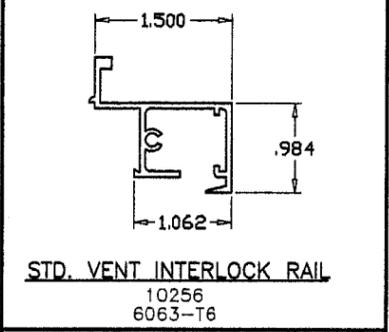
SILL TRACK  
10846  
6063-T5



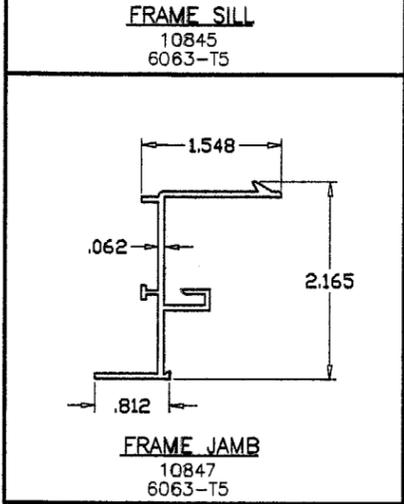
H.D. FIXED MEETING RAIL  
11822  
6063-T6



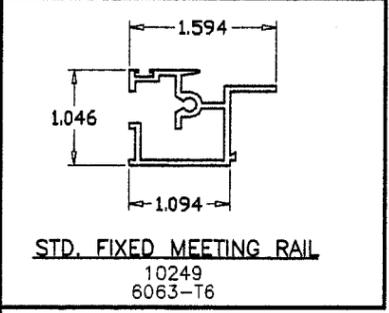
FRAME SILL  
10845  
6063-T5



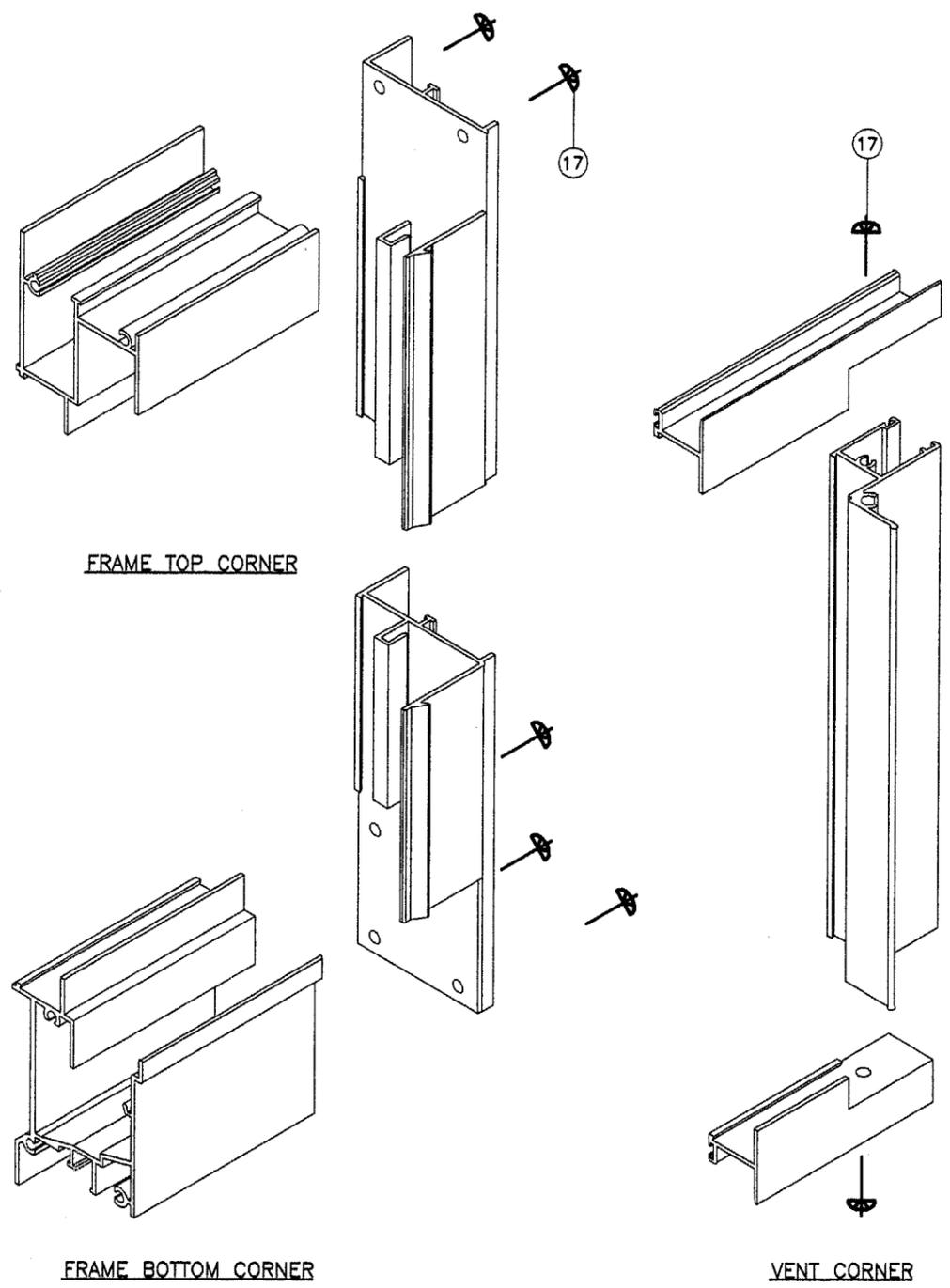
STD. VENT INTERLOCK RAIL  
10256  
6063-T6



FRAME JAMB  
10847  
6063-T5



STD. FIXED MEETING RAIL  
10249  
6063-T6



FRAME TOP CORNER

FRAME BOTTOM CORNER

VENT CORNER

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538  
MAR 12 2003

Approved as complying with the  
Florida Building Code  
Date: APRIL 24, 2003  
NOA# 03-0320-14  
Miami Dade Product Control  
Division  
By: *Manuel Sere*

**afsc**  
AL-FAROOQ CORPORATION  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W97-31CC

SERIES 400 HORIZ. SLIDING WINDOW  
**CURV-A-TECH CORPORATION**  
930 W. 23rd STREET  
HIALEAH, FL 33010  
TEL. (305) 888-9631 FAX. (305) 888-9969

no	date	by	description
D	1.14.03		NO CHANGE THIS SHEET
E	3.06.03		NO CHANGE THIS SHEET

date: 10-06-97  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W97-31**  
sheet 4 of 4