



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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

T.M. Window & Door Co.
601 N.W. 12th Ave.
Pompano Beach ,FL 33069

Your application for Notice of Acceptance (NOA) of:

Series 310 Aluminum Sliding Glass Door (No Reinforcement)

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0122.01
EXPIRES: 12/02/2001

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 04/26/2001

T.M. Window & Door Company

ACCEPTANCE No.: 01-0122.01

APPROVED : APR 26 2001

EXPIRES : December 02, 2001

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 99-1201.02, which was issued on April 21, 2000. It approves an aluminum sliding glass door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series 310 - Aluminum Sliding Glass Door (No reinforcement) and its components shall be constructed in strict compliance with the following documents: Drawing No 310-N3-C1, 310-N3-C2, 310-N3-C3, 310-N3-W1, 310-N3-W2 and 310-N3-W3 titled "Series 310 Alum Sliding Glass Door - XO, OXO, OXXO," dated 9/23/96, w/revision 1 dated 11/18/96, signed and sealed by Ballard L. Argus, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

2.2 Frame Construction:

2.2.1 Head: The header consists of a 1.477" face x 5.028" deep x 0.60" wall thickness extruded aluminum 3-track channel. (Part #SW-27509)

2.2.2 Jambs: A .875" face x 4.893" deep x 0.62" wall thickness extruded aluminum 3-track jamb. (Part #GW-31172)

2.2.3 Track: A .625" high x 5.029" wide x 0.70" wall thickness x 2-1/2" high overall interior sill flange extruded aluminum triple track is used at sill (Part #GW-36676).

2.2.4 Corner construction: Butt joints, frame header and sill are not secured to jambs at corners.

2.3 Panel Construction:

2.3.1 Stiles: Panel jamb stiles consist of a 2.071" face x 1.020" deep x .062" wall thickness extruded aluminum hollow with a .392" x .593" glazing pocket (Part #GW-34975).

Male Astragal stile consist of a 2.562" face x 2.688" deep x .062" wall thickness extruded alum. hollow with a .392" x .593" glazing pocket (Part #GW-32720).

Female Astragal stile consist of a 2.718" face x 2.688" deep x .062" wall thickness extruded alum. hollow with a .392" x .593" glazing pocket and a .625" x 1.300" locking pocket w/two pile grooves (Part #GW-32721).

Astragal OXO stile consist of a 2.718" face x 3.250" deep x .062 wall alum. hollow with .392" x .593" glazing pocket and a .625" x 1.300" locking pocket w/two pile grooves (Part #GW-33842).

Major interlock stile is a 2.800" face x 1.688" deep x .055" wall thickness extruded alum. hollow with a .392" x .593" glazing pocket and three pile grooves (Part #GW-35005).

Minor interlock stile is a 2.800" face x 1.525" deep x .050" wall thickness extruded alum. hollow with a .392" x .593" glazing pocket and three pile grooves (Part #GW-36984).


Manuel Perez, P.E. Product Control Examiner
Product Control Division

T.M. Window & Door Company

ACCEPTANCE No.: 99-1201.02

APPROVED : APR 26 2001

EXPIRES : December 02, 2000

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

2.3.2 Rails: Top rail is a 1.259" face x 1.407" deep x .062" wall thickness aluminum solid extrusion with a .392" x .562" glazing pocket and two pile grooves (Part #GW-36866). Bottom rail is a 2.489" face x 1.407" deep x .062" wall thickness aluminum solid extrusion with a .392" x .562" glazing pocket and two pile grooves (Part #GW-36867).

2.3.3 Corner construction: Panel corners are butt joined and each is secured with two #10 x 1" PH SMS.

2.4 Weatherstripping:

	<u>Quantity</u>	<u>Description</u>	<u>Location</u>
2.4.1	Triple row	Pile with integral plastic fin	At each panel interlock stile.
2.4.2	Double row	Pile with integral plastic fin	At each fixed panel jamb stile.
2.4.3	Double row	Pile with integral plastic fin	At female astragal stile, astragal OXO stile and each panel top and bottom rail.

2.5 Hardware:

	<u>Quantity</u>	<u>Description</u>	<u>Location</u>
2.5.1	Four	Adjustable tandem plastic wheels in metallic housing.	One at each end of each moving panel.
2.5.2	One	Flush mount dual metallic hook lock	At moving panel lock stiles, 39" from bottom.

2.6 Weepholes:

	<u>Quantity</u>	<u>Description</u>	<u>Location</u>
2.6.1	Six	1" weep notch	One at each end of each track.

3. LIMITATIONS

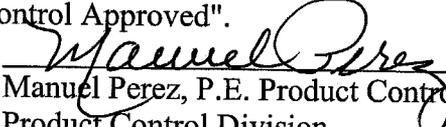
- 3.1 This approval applies to single unit applications only and for the configurations shown in approved drawings.
- 3.2 Head receptor is not allowed to be used in this installation.
- 3.3 For Design Pressure Rating vs. Door Size, see Comparative Analysis Table corresponding to each configuration and anchor attachment referenced in approved drawings.

4. INSTALLATION

- 4.1 The aluminum sliding glass door and its components shall be installed in strict compliance with the approved drawings.
- 4.2 Hurricane protection system (shutters): the installation of this unit **will require** a hurricane protection system.

5. LABELING

- 5.1 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".


Manuel Perez, P.E. Product Control Examiner
Product Control Division

T.M. Window & Door Company

ACCEPTANCE No.: 99-1201.02

APPROVED : APR 26 2001

EXPIRES : December 02, 2000

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

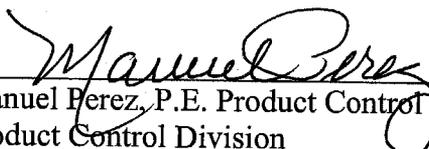
6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

T.M. Window & Door Company

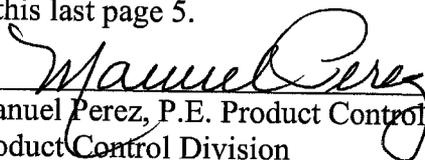
ACCEPTANCE No.: 99-1201.02

APPROVED : APR 26 2001

EXPIRES : December 02, 2000

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2, 3, 4 and this last page 5.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE

T.M. Window & Door Company

ACCEPTANCE No.: 99-1201.02

APPROVED : APR 26 2001

EXPIRES : December 02, 2000

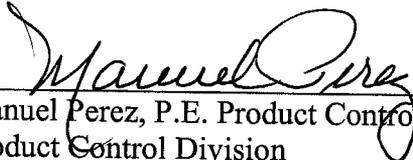
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED
(For File ONLY. Not part of NOA.)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **310-N3-C1, 310-N3-C2, 310-N3-C3, 310-N3-W1, 310-N3-W2 and 310-N3-W3** titled " Series 310 Alum Sliding Glass Door – dated 9/23/96, w/revision 1 dated 11/18/96, signed and sealed by Ballard L. Argus, P.E.,

B. TESTS

1. DRAFT of Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
4) Large Missile Impact Test per SFBC, PA 201-94
5). Small Missile Impact Test per SFBC, PA 201-94
6) Cyclic Wind Pressure Loading per SFBC, PA 203-94
7) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94
along with marked-up drawings and installation diagram of an aluminum sliding glass door with reinforcement, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2771**, dated January 15, 2001, witnessed by Antonio Acevedo, P.E.
2. DRAFT of Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
4) Large Missile Impact Test per SFBC, PA 201-94
5). Small Missile Impact Test per SFBC, PA 201-94
6) Cyclic Wind Pressure Loading per SFBC, PA 203-94
7) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94
along with marked-up drawings and installation diagram of an aluminum sliding glass door without reinforcement, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2976**, dated March 2, 2001, witnessed by Antonio Acevedo, P.E.
3. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
4) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94
along with marked-up drawings and installation diagram of an aluminum sliding glass door, prepared by Miami Testing Laboratory, Inc., Test Report No. **MTL-15934 and MTL-15933**, both dated October 28, 1994, signed and sealed by David Ober, P.E.
(Submitted with previous approvals)


Manuel Perez, P.E. Product Control Examiner
Product Control Division

T.M. Window & Door Company

ACCEPTANCE No.: 99-1201.02

APPROVED : APR 26 2001

EXPIRES : December 02, 2000

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA.)

C. CALCULATIONS

1. Anchor Calculations and structural analysis, prepared and signed by Richard N. Park, P.E., dated 6/2/95. See "Comparative Analysis Table" on Drawing No. 310-N3-C1, 310-N3-C2, 310-N3-C3, 310-N3-W1, 310-N3-W2, & 310-N3-W3, Sheets 1 of 1, bearing the Dade County Product Control approval stamp. **(Submitted with previous approvals)**

D. STATEMENTS

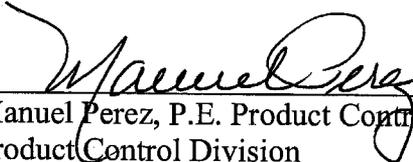
1. Letter requesting a one-year approval, dated January 12, 2001, signed by Michael J. Metzger, Manager.
2. Statement letter of conformance, dated December 30, 1997, signed by Kelvyn Whitfield, P.E.
3. Statement letter of no financial interest, dated December 30, 1997, signed by Laboratory compliance letter, issued by Hurricane Test Laboratory, Inc., dated September 26, 1997, signed and sealed by

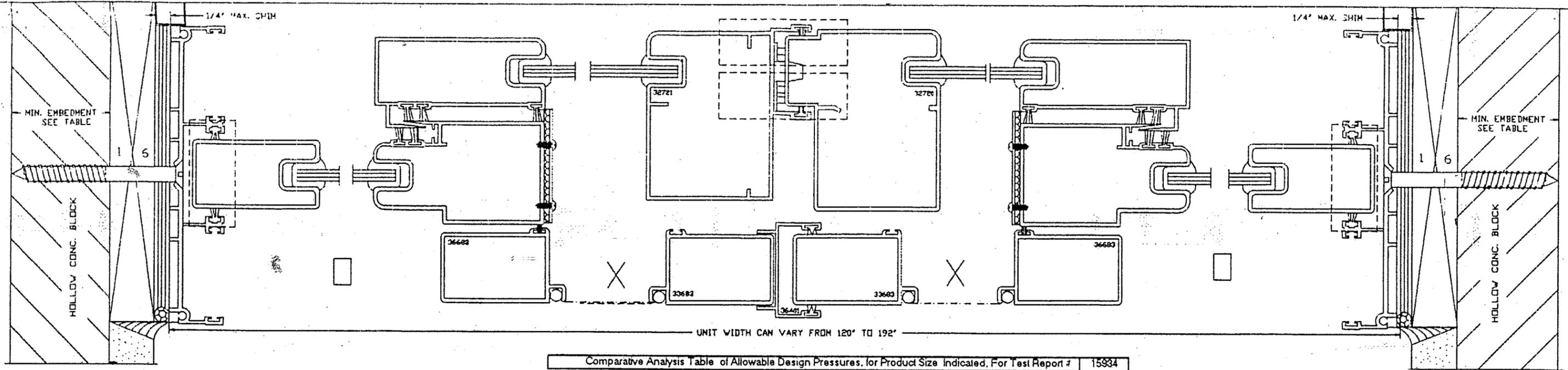
E. OTHERS

1. Notice of Acceptance No. **99-1201.02** issued to T.M. Window & Door Co. for their Series 310 Aluminum Sliding Glass Door (No Reinforcement), dated 04/21/00, expiring on 12/02/00.

TEST	TEST LOADS	DESIGN LOADS
AIR INFILTRATION @ 1.57 PSF SFBC PA 202-94 (0.34 CFM/FT ²)	0.31 CFM/FT ² MTL-15933	-----
UNIFORM STATIC PRESSURE LOADS SFBC PA 202-94 POSITIVE 30 Seconds	+46.0 PSF MTL-15934	+30.7 PSF MTL-15934
UNIFORM STATIC PRESSURE LOADS SFBC PA 202-94 NEGATIVE 30 Seconds	-46.0 PSF MTL-15934	-30.7 PSF MTL-15934
WATER RESISTANCE (PSF) SFBC PA 202-94	+8.30 PSF MTL-15934	+30.7 PSF MTL-15934
FORCED-ENTRY RESISTANCE (FER) SFBC PA 202-94 & 3603.2(b)(5)	SATISFACTORY MTL-15934	-----
Design Pressure Rating (Positive)		+30.7 PSF
Design Pressure Rating (Negative)		-30.7 PSF

For Design Pressure Rating vs. Door Size, see Table referenced in Section 9 "Comparative Analysis".


Manuel Perez, P.E. Product Control Examiner
Product Control Division



Comparative Analysis Table of Allowable Design Pressures, for Product Size Indicated, For Test Report # 15934

TMWD Product Code	Project SGD Frame Dim OXXX Width (in) x Height (in)	Max Allow Dp (psi)		"B" Anch Each Jamb	"B" Anch Left Pan Head/Sill	"B" Anch Mid Pan(s) Head/Sill	"B" Anch Right Pan Head/Sill
		2 1/2" Sill Height + Pos Dp	- Neg Dp				
10068	10'-0" x 6'-8"	55.3	-55.8	4	2	1	2
12068	12'-0" x 6'-8"	48.8	-48.8	4	2	1	2
16068	16'-0" x 6'-8"	40.5	-40.5	4	2	2	2
10080	10'-0" x 8'-0"	43.3	-43.3	5	2	1	2
12080	12'-0" x 8'-0"	36.4	-36.4	5	2	1	2
16080	16'-0" x 8'-0"	28.9	-28.9	5	2	2	2

PRODUCT RENEWED
 ACCEPTANCE No. 99-1201.02
 EXPIRATION DATE 12/22/2000
 By Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE DECEMBER 23 1996
 BY Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 95-0825.08

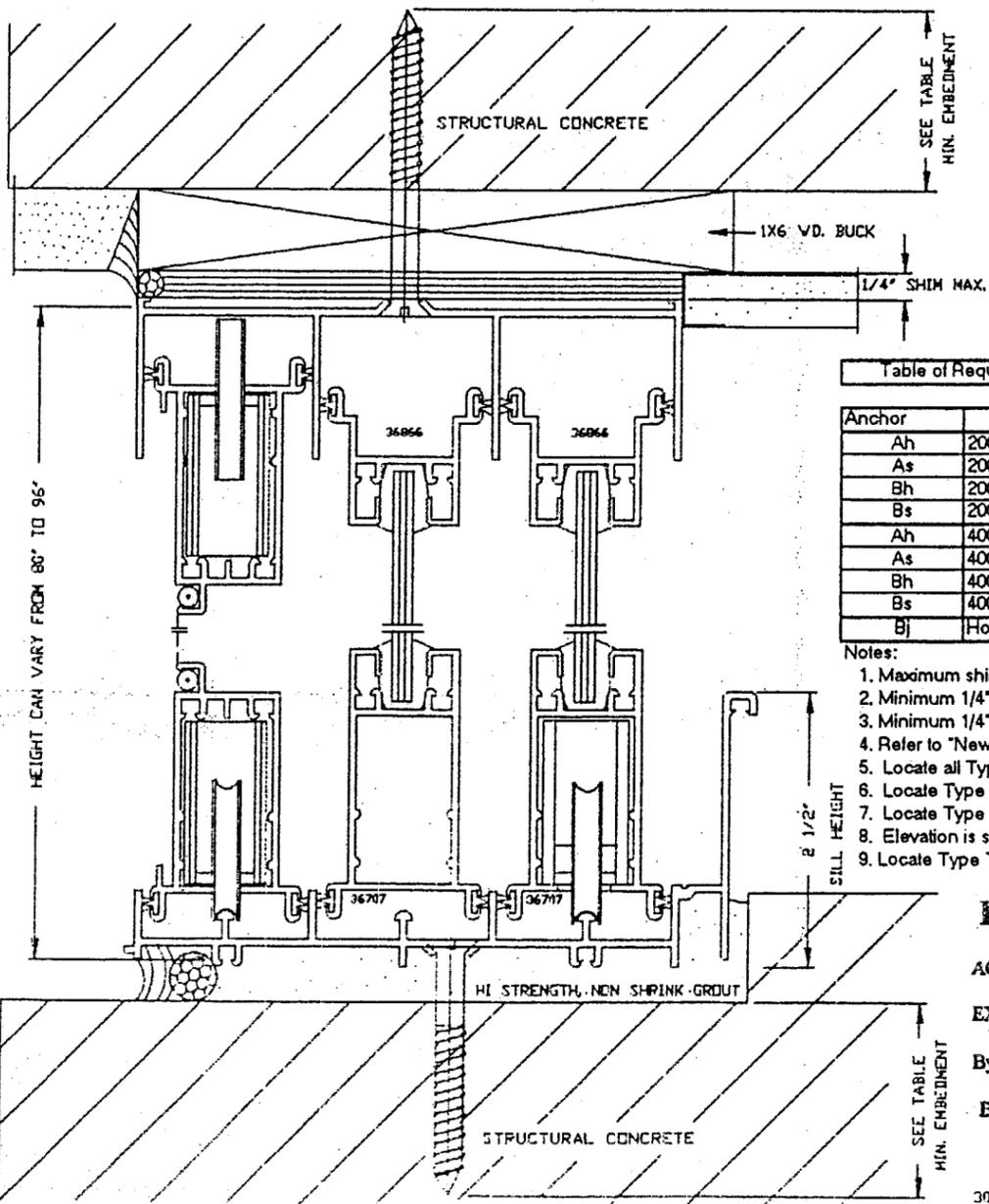
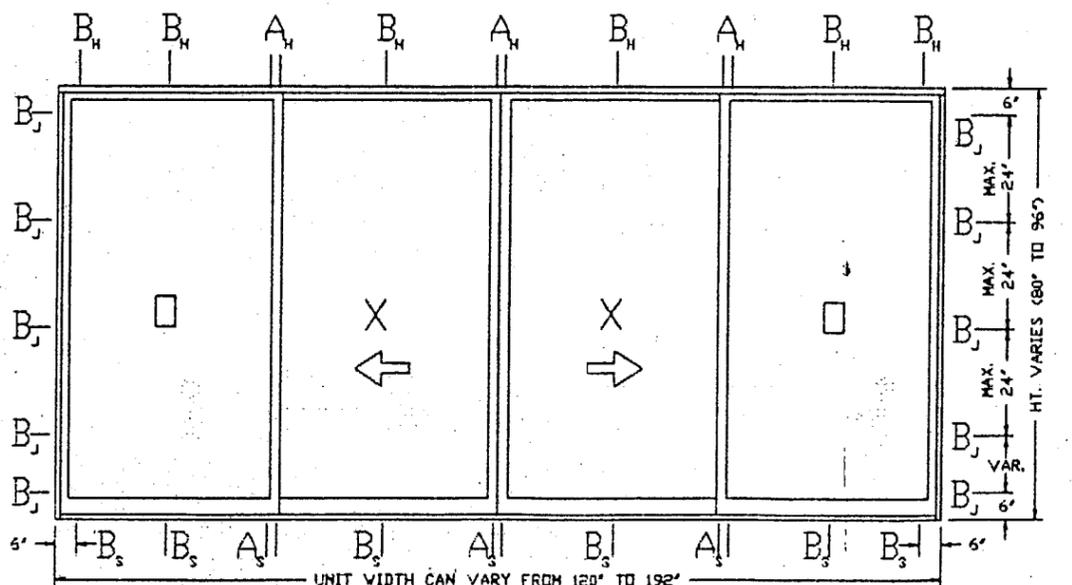


Table of Required Anchors - Structural Concrete/CBS Construction, for Test Report # 15934

Anchor	Substrate Type	Vmax (lb)	Use Anchor Type	Notes
Ah	2000 psi Concrete	378.2	2 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
As	2000 psi Concrete	378.2	2 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
Bh	2000 psi Concrete	146.0	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Bs	2000 psi Concrete	146.0	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Ah	4000 psi Concrete	378.2	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
As	4000 psi Concrete	378.2	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
Bh	4000 psi Concrete	146.0	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Bs	4000 psi Concrete	146.0	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Bj	Hollow Concrete Block	162.1	1 ea 1/4" Dia Tapcon x 1 1/2" Embedment	1,2,3,4,7,9

- Notes:
- Maximum shim space between sliding glass door frame and concrete/wood buck substrate = 1/4".
 - Minimum 1/4" Diameter Tapcon Edge Distance from edge of concrete/block = 2 1/2".
 - Minimum 1/4" Diameter Tapcon embedment for hollow concrete block = 1 1/2".
 - Refer to "New Tapcon Design Data" and "ICBO Report #3370, October 1990".
 - Locate all Type "A" Anchors within 6" of interlock ends, per test mock-up.
 - Locate Type "B" Head/Sill Anchors at 6" from frame ends and 21 5/8" O.C. Maximum, per test mock-up.
 - Locate Type "B" Jamb Anchors at 6" from frame ends and 24" O.C. Maximum, per test mock-up.
 - Elevation is scaled view of equivalent "test size" unit for "OXXX" or "OXXX" configuration.
 - Locate Type "B" anchors for other size units per notes 6 and 7.



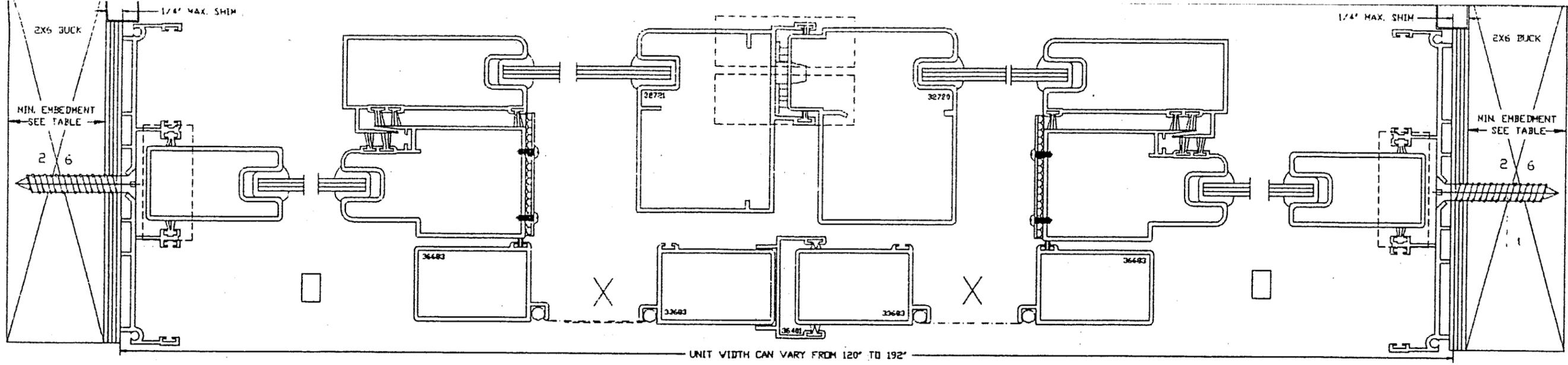
PRODUCT RENEWED
 ACCEPTANCE No. 01-0122.01
 EXPIRATION DATE DEC 02 2001
 By Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

Glass Lite Information - OXXX or OXXX Configuration
 Typical Glass Bite = 1/2"
 Glass Lite Width = ((SGD Frame Width - 11 7/8) / 4)"
 Glass Lite Height = (SGD Frame Height - 4)"

STRUCTURAL CONCRETE/CBS CONSTRUCTION

Ballard L. Argus, P.E.
 11/18/96

TM Window & Door Co.
 601 NW 12 AVE., Pompano Beach, FL
 Product Description
 Series 310 Alum. Sliding Glass Door
 Glass Type
 3/16" Thick Tempered Glass
 Testing Laboratory: Miami Testing Lab.
 Test Report No: 15934 10/14/94
 Dwg.No. 310-N3-C3 Config: OXXX Sheet: 1 of 119/23/96 Date: 11-18-96 Rev.
 Metro Data Action: Product Approval Renewal



UNIT WIDTH CAN VARY FROM 120" TO 192"

Comparative Analysis Table of Allowable Design Pressures, for Product Size Indicated, For Test Report # 15934

TMWD Product Code	Project SGD Frame Dim OXXO Width (in) x Height (in)	Max Allow Dp (psi) 2 1/2" Sill Height + Pos Dp - Neg Dp	"B" Anch Each Jamb	"B" Anch Left Pan Head/Sill	"B" Anch Mid Pan(s) Head/Sill	"B" Anch Right Pan Head/Sill
10068	10'-0" x 6'-8"	55.3 -55.8	4	2	1	2
12068	12'-0" x 6'-8"	48.8 -48.8	4	2	1	2
16068	16'-0" x 6'-8"	40.5 -40.5	4	2	2	2
10080	10'-0" x 8'-0"	43.3 -43.3	5	2	1	2
12080	12'-0" x 8'-0"	36.4 -36.4	5	2	1	2
16080	16'-0" x 8'-0"	28.9 -28.9	5	2	2	2

PRODUCT RENEWED

ACCEPTANCE No. 99-1201.02

EXPIRATION DATE December 02, 2000

By *Manuel Perez*

PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE

DATE DECEMBER 02 1996

BY *Manuel Perez*

PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE

ACCEPTANCE NO. 95-0825.08

Table of Required Anchors - Wood Frame Construction, for Test Report # 15934

Anchor	Substrate Type	Vmax (lb)	Use Anchor Type	Notes
Ah	1 1/2" P.T. Sou. Pine	378.2	2ea #10 Sheet Metal Screw x 1 1/4" Penetration	1,2,3,6
As	1 1/2" P.T. Sou. Pine	378.2	2ea #10 Sheet Metal Screw x 1 1/4" Penetration	1,2,3,6
Bh	1 1/2" P.T. Sou. Pine	146.0	1 ea #10 Sheet Metal Screw x 1" Penetration	1,2,3,4,5
Bs	1 1/2" P.T. Sou. Pine	146.0	1 ea #10 Sheet Metal Screw x 1" Penetration	1,2,3,4,5
Bj	1 1/2" P.T. Sou. Pine	162.1	1 ea #12 Sheet Metal Screw x 1" Penetration	1,2,3,4,5

Notes:

- Maximum shim space between sliding glass door frame and P.T. Southern Pine wood buck substrate = 1/4".
- References: "Wood Engineering Handbook", U.S. Forest Products Laboratory, 1974. "Southern Pine Manual", Southern Forest Products Association, 1975.
- Locate all Type "A" Anchors within 6" of interlocker ends, per test mock-up..
- Locate Type "B" Head/Sill Anchors at 6" from frame ends and 21 5/8" O.C. Maximum, per test mock-up.
- Locate Type "B" Jamb Anchors at 6" from frame ends and 24" O.C. Maximum, per test mock-up.
- Elevation is scaled view of equivalent "test size" unit for "OXXO" or "OXXX" configuration.
- Locate Type "B" anchors for other size units per notes 4 and 5.

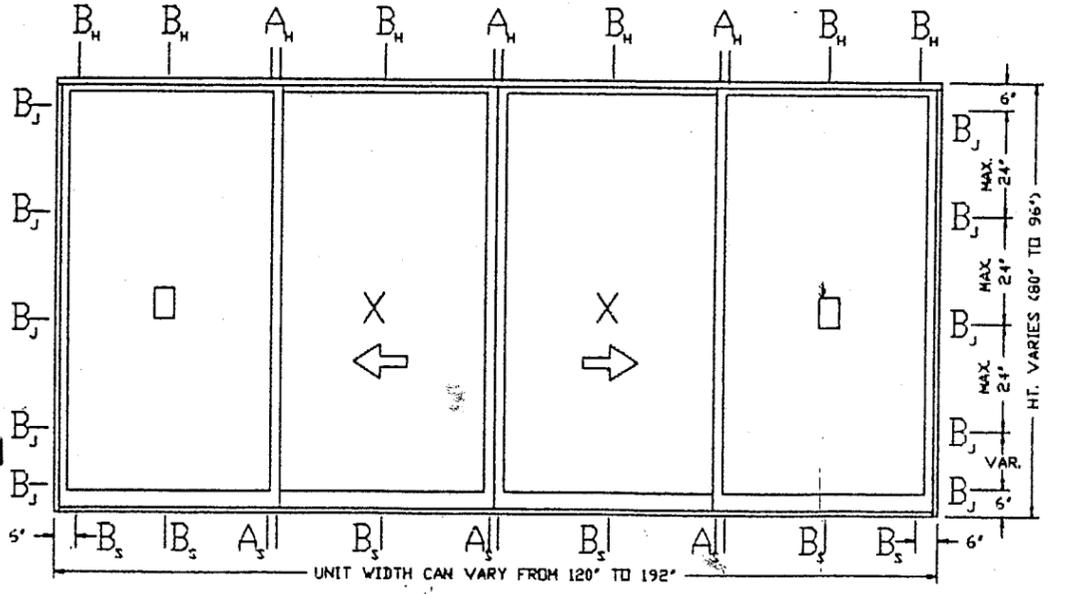
PRODUCT RENEWED

ACCEPTANCE No. 01-0122.01

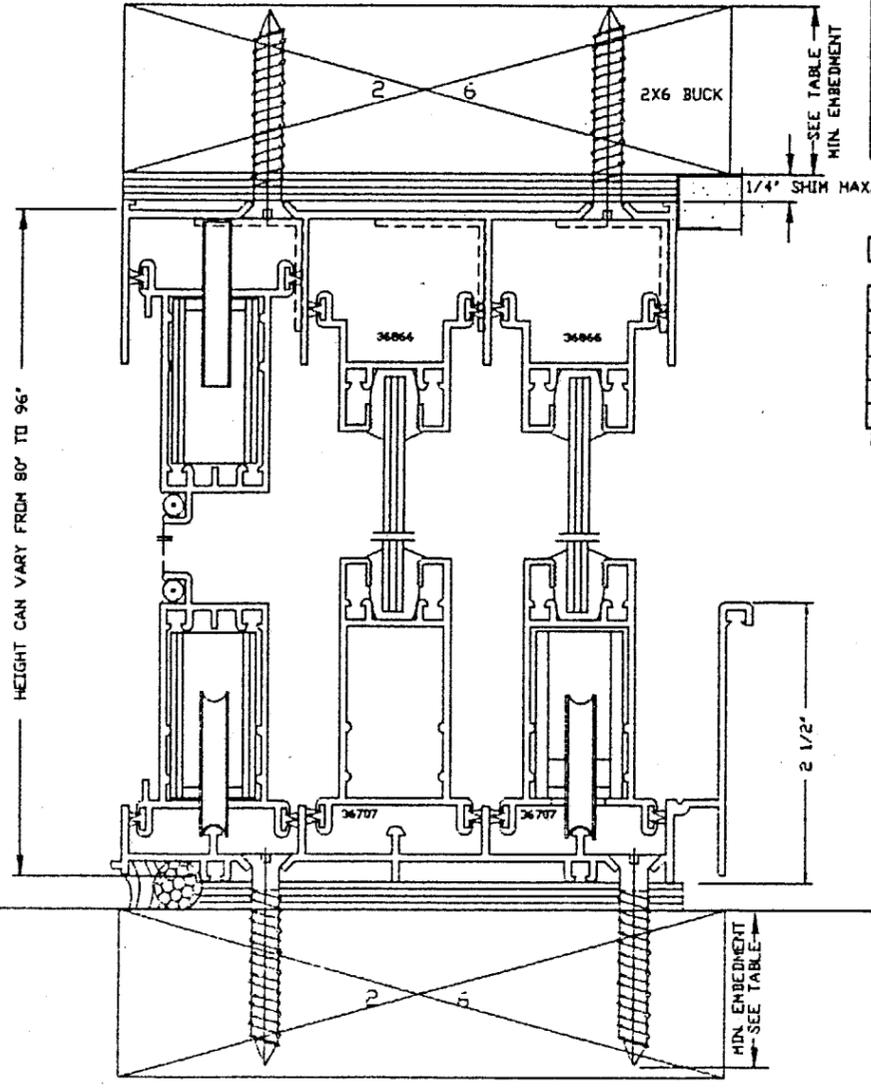
EXPIRATION DATE DEC 02 2001

By *Manuel Perez*

PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE



UNIT WIDTH CAN VARY FROM 120" TO 192"



HEIGHT CAN VARY FROM 80" TO 96"

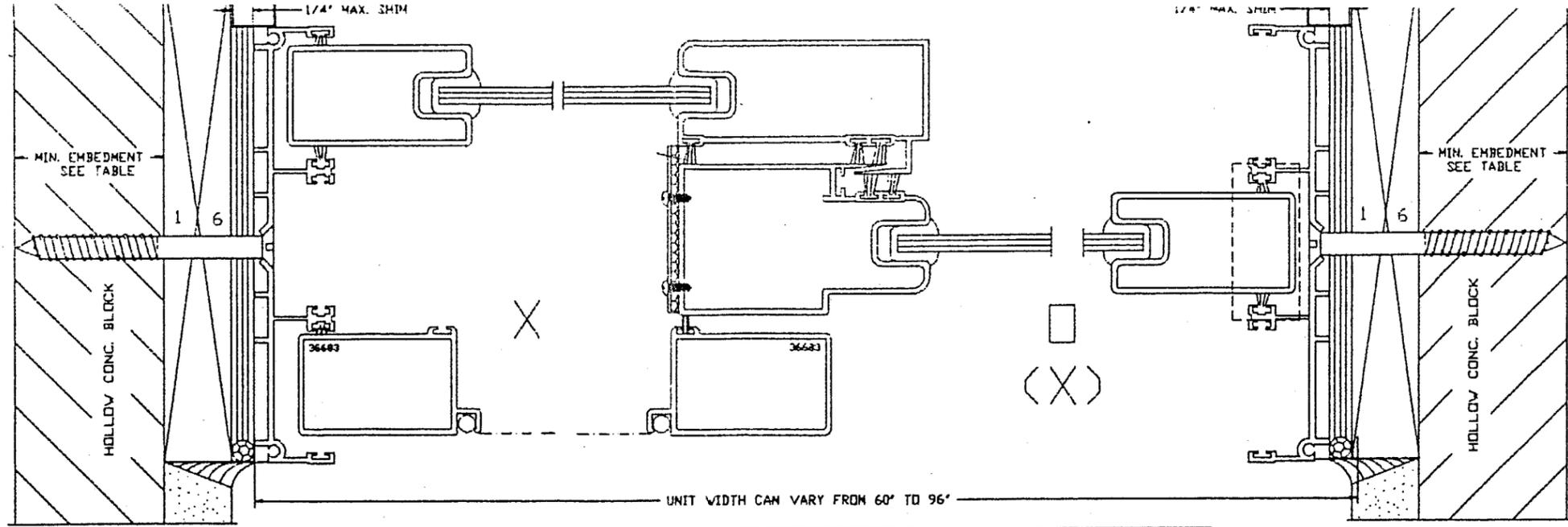
MIN. EMBEDMENT SEE TABLE

Glass Lite Information - OXXO or OXXX Configuration
Typical Glass Bite = 1/2"
Glass Lite Width = ((SGD Frame Width - 11 7/8) / 4)"
Glass Lite Height = (SGD Frame Height - 4)"

WOOD BUCK CONSTRUCTION

Manuel Perez
 Manuel Perez, P.E.
 11/18/96
 Expires: 2/28/97

TM Window & Door Co. 601 NW 12 AVE., Pompano Beach, FL
Product Description Series 310 Alum. Sliding Glass Door
Glass Type 3/16" Thick Tempered Glass
Testing Laboratory: Miami Testing Lab.
Test Report No: 15934 10/14/94
Dwg.No. Config: Sheet: Date: Rev.
310-N3-W3 OXXO 1 of 1 9/23/96 11-18-96
Netro Code Action: Product Approval Renewal



PRODUCT RENEWED
 ACCEPTANCE No. 99-1201.02
 EXPIRATION DATE December, 02
 By *Manuel Perez*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

Comparative Analysis Table of Allowable Design Pressures, for Product Size Indicated, For Test Report # 15934

TMWD Product Code	Project SGD Frame Size OX Width (in) x Height (in)	Max Allow Dp (psf)		"B" Anch Each Jamb	"B" Anch Left Pan Head/Sill	"B" Anch Right Pan Head/Sill
		+ Pos Dp	- Neg Dp			
5068	5'-0" x 6'-8"	55.3	-55.8	4	2	2
6068	6'-0" x 6'-8"	48.7	-48.7	4	2	2
8068	8'-0" x 6'-8"	40.4	-40.4	4	2	2
5080	5'-0" x 8'-0"	44.6	-44.6	5	2	2
6080	6'-0" x 8'-0"	38.5	-38.5	5	2	2
8080	8'-0" x 8'-0"	31.2	-31.2	5	2	2

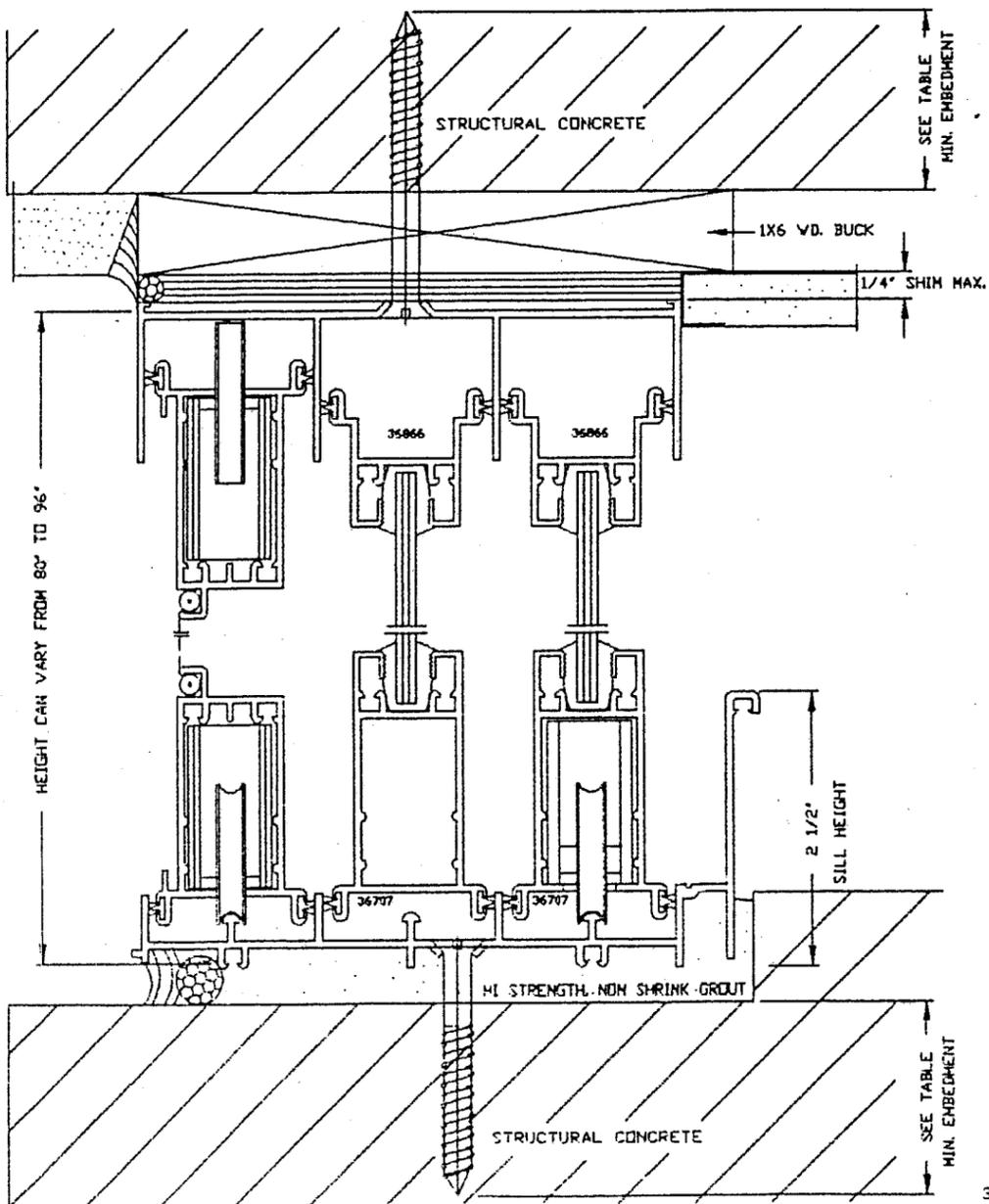
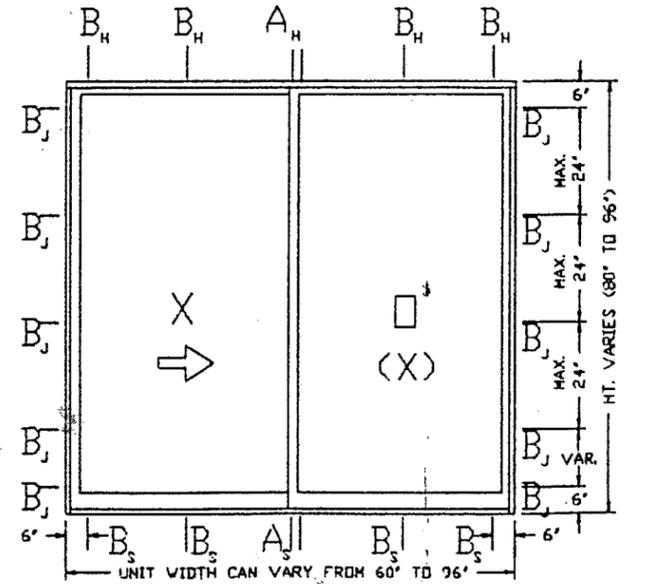
PRODUCT RENEWED

ACCEPTANCE No. 01-0122.01 APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 EXPIRATION DATE DEC 02 2001 DATE DECEMBER 02 19 96
 By *Manuel Perez* BY *Manuel Perez*
 PRODUCT CONTROL DIVISION PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 95-0825.08

Table of Required Anchors - Structural Concrete/CBS Construction, for Test Report # 15934

Anchor	Substrate Type	Vmax (lb)	Use Anchor Type	Notes
Ah	2000 psi Concrete	378.0	2 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
As	2000 psi Concrete	378.0	2 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
Bh	2000 psi Concrete	145.4	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Bs	2000 psi Concrete	145.4	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Ah	4000 psi Concrete	378.0	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
As	4000 psi Concrete	378.0	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
Bh	4000 psi Concrete	145.4	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Bs	4000 psi Concrete	145.4	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Bj	Hollow Concrete Block	161.4	1 ea 1/4" Dia Tapcon x 1 1/2" Embedment	1,2,3,4,7,9

- Notes:
1. Maximum shim space between sliding glass door frame and concrete/wood buck substrate = 1/4".
 2. Minimum 1/4" Diameter Tapcon Edge Distance from edge of concrete/block = 2 1/2".
 3. Minimum 1/4" Diameter Tapcon embedment for hollow concrete block = 1 1/2".
 4. Refer to "New Tapcon Design Data" and "ICBO Report #3370, October 1990".
 5. Locate all Type "A" Anchors within 6" of interlocker ends, per test mock-up..
 6. Locate Type "B" Head/Sill Anchors at 6" from frame ends and 21 5/8" O.C. Maximum, per test mock-up.
 7. Locate Type "B" Jamb Anchors at 6" from frame ends and 24" O.C. Maximum, per test mock-up.
 8. Elevation is scaled view of equivalent "test size" unit for "OX", "XO", or "XX" configuration.
 9. Locate Type "B" anchors for other size units per notes 6 and 7.

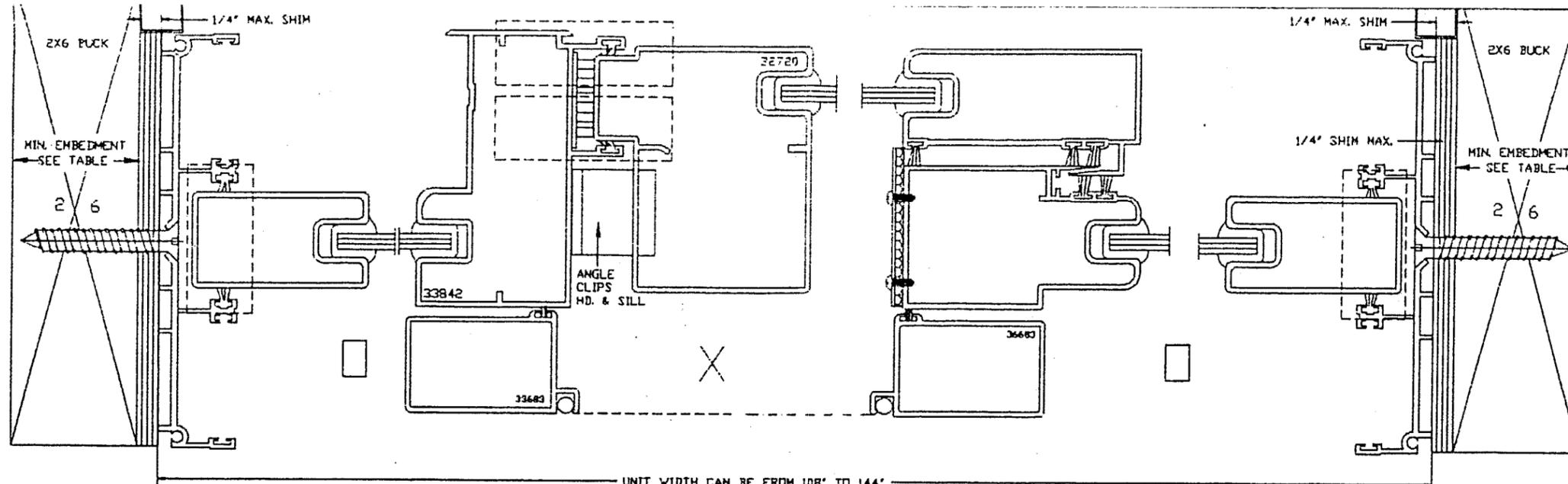


Glass Lite Information - OX, XO, or XX Configuration
 Typical Glass Bite = 1/2"
 Glass Lite Width = ((SGD Frame Width - 6 1/16) / 2)"
 Glass Lite Height = (SGD Frame Height - 4)"

STRUCTURAL CONCRETE/CBS CONSTRUCTION

Manuel Perez
 Ballard L. Argus, P.E.
 11/18/96
 Expires: 2/28/97

TM Window & Door Co.
 601 NW 12 AVE., Pompano Beach, FL
 Product Description
 Series 310 Alum. Sliding Glass Door
 Glass Type
 3/16" Thick Tempered Glass
 Testing Laboratory: Miami Testing Lab.
 Test Report No.: 15934 10/14/94
 Dwg.No. 310-N3-C1 Config: XO Sheet: 1 of 1 Date: 9/23/96 Rev. 11-18-96
 Metro Dade Action: Product Approval Renewal



PRODUCT RENEWED
 ACCEPTANCE No. 99-1201.02
 EXPIRATION DATE 12/02/2000
 By Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

Comparative Analysis Table of Allowable Design Pressures, for Product Size Indicated, For Test Report # 15934

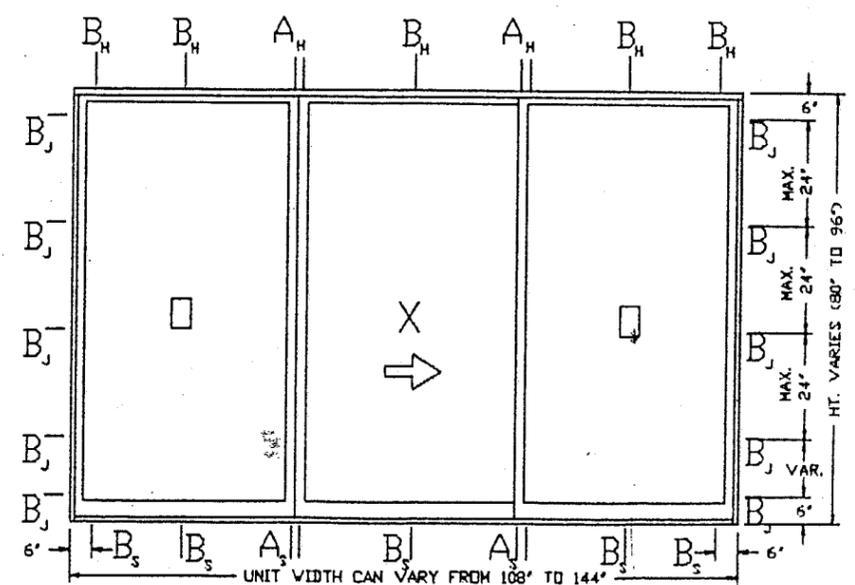
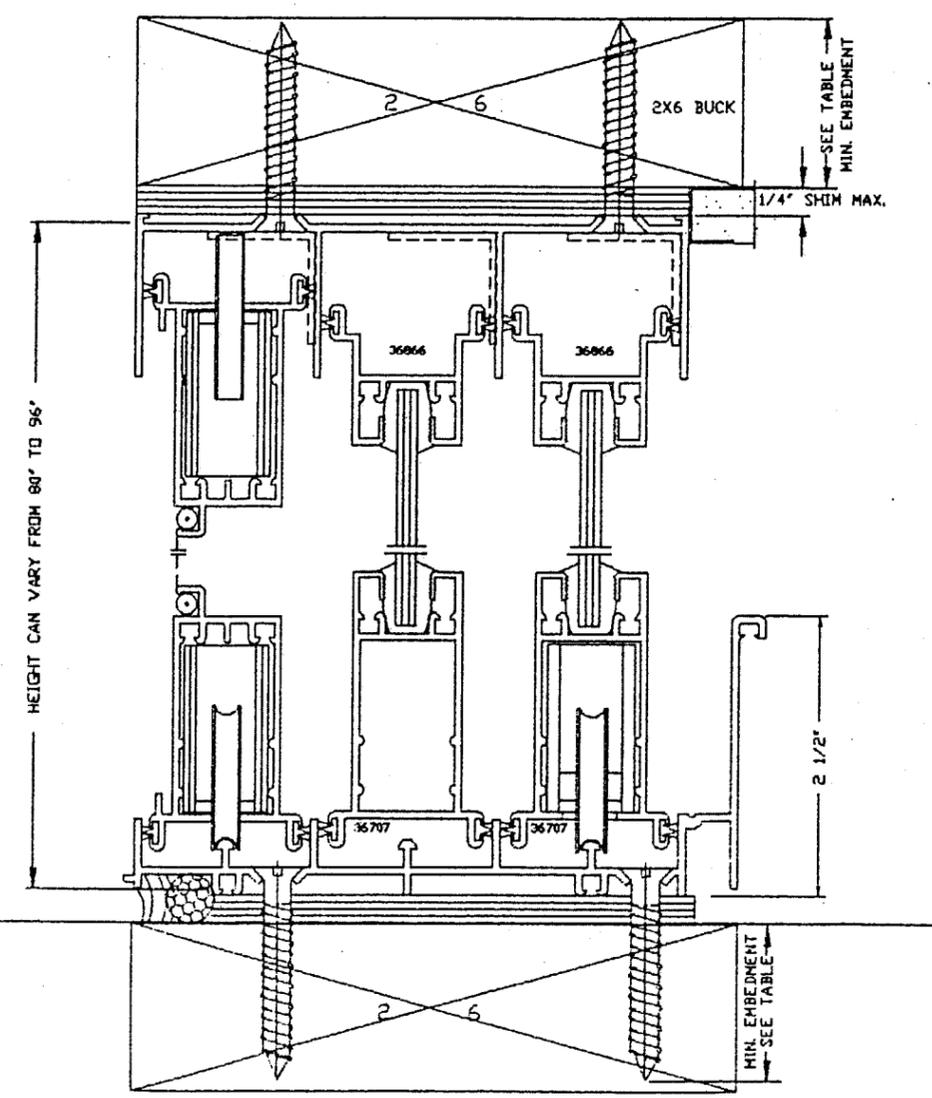
TMWD Product Code	Project SGD Frame Size OXO Width (in) x Height (in)	Max Allow Dp (psf)		"B" Anch Each Jamb	"B" Anch Left Pan Head/Sill	"B" Anch Mid Pan Head/Sill	"B" Anch Right Pan Head/Sill
		+ Pos Dp	- Neg Dp				
9068	9'-0" x 6'-8"	48.9	-48.9	4	2	1	2
10668	10'-6" x 6'-8"	44.0	-44.0	4	2	1	2
12068	12'-0" x 6'-8"	40.6	-40.6	4	2	2	2
9080	9'-0" x 8'-0"	38.1	-38.1	5	2	1	2
10680	10'-6" x 8'-0"	33.2	-33.2	5	2	1	2
12080	12'-0" x 8'-0"	29.6	-29.6	5	2	2	2

PRODUCT RENEWED
 ACCEPTANCE No. 01-0122.01
 EXPIRATION DATE DEC 02 2001
 By Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE DECEMBER 02 1996
 BY Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 95-0825.08

Table of Required Anchors - Wood Frame Construction, for Test Report # 15934

Anchor	Substrate Type	Vmax (lb)	Use Anchor Type	Notes
Ah	1 1/2" P.T. Sou. Pine	378.7	2ea #10 Sheet Metal Screw x 1 1/4" Penetration	1,2,3,6
As	1 1/2" P.T. Sou. Pine	378.7	2ea #10 Sheet Metal Screw x 1 1/4" Penetration	1,2,3,6
Bh	1 1/2" P.T. Sou. Pine	146.2	1 ea #10 Sheet Metal Screw x 1" Penetration	1,2,3,4,5
Bs	1 1/2" P.T. Sou. Pine	146.2	1 ea #10 Sheet Metal Screw x 1" Penetration	1,2,3,4,5
Bj	1 1/2" P.T. Sou. Pine	162.3	1 ea #12 Sheet Metal Screw x 1" Penetration	1,2,3,4,5

- Notes:
- Maximum shim space between sliding glass door frame and P.T. Southern Pine wood buck substrate = 1/4".
 - References: "Wood Engineering Handbook", U.S. Forest Products Laboratory, 1974. "Southern Pine Manual", Southern Forest Products Association, 1975.
 - Locate all Type "A" Anchors within 6" of interlocker ends, per test mock-up.
 - Locate Type "B" Head/Sill Anchors at 6" from frame ends and 21 5/8" O.C. Maximum, per test mock-up.
 - Locate Type "B" Jamb Anchors at 6" from frame ends and 24" O.C. Maximum, per test mock-up.
 - Elevation is scaled view of equivalent "test size" unit for "OXO" or "OXX" configuration.
 - Locate Type "B" anchors for other size units per notes 4 and 5.



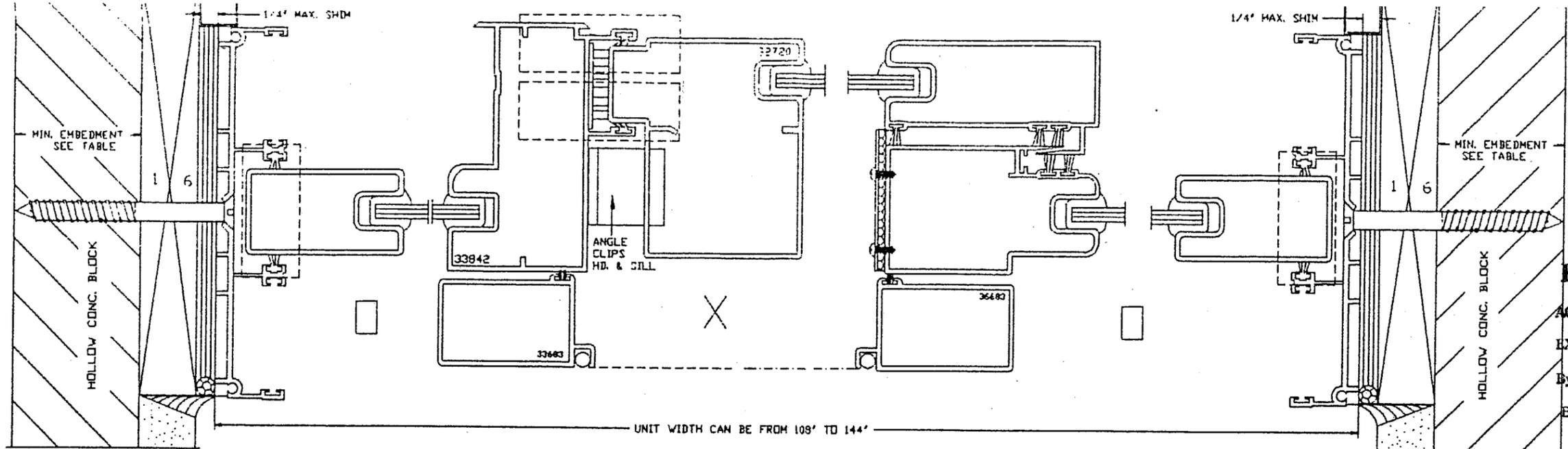
Glass Lite information - OXO or OXX Configuration
 Typical Glass Bite = 1/2"
 Glass Lite Width = ((SGD Frame Width - 10) / 3)"
 Glass Lite Height = (SGD Frame Height - 4)"

WOOD BUCK CONSTRUCTION

Ballard L. Argus, P.E.
 11/18/99

TM Window & Door Co.
 601 NW 12 AVE., Pompano Beach, FL
 Product Description
 Series 310 Alum. Sliding Glass Door
 Glass Type
 3/16" Thick Tempered Glass
 Testing Laboratory: Miami Testing Lab.
 Test Report No: 15934 10/14/94
 Dwg.No. [] Config: [] Sheet: [] Date: [] Rev. []
 310-N3-Wd OXO 1 of 19/23/96 11-18-96
 Metro Dade Action: Product Approval Renewal

30W15934



PRODUCT RENEWED
 ACCEPTANCE No. 99-1201-02
 EXPIRATION DATE 12/02/2000
 By Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

Comparative Analysis Table of Allowable Design Pressures, for Product Size Indicated, For Test Report # 15334

TMWD Product Code	Project SGD Frame Size OXO Width (in) x Height (in)	Max Allow Dp (psf)		"B" Anch Each Jamb		"B" Anch Left Pan Head/Sill		"B" Anch Mid Pan Head/Sill		"B" Anch Right Pan Head/Sill	
		2 1/2" Sill Height	+ Pos Dp - Neg Dp	4	2	2	1	2	1	2	
9068	9'-0" x 6'-8"	48.9	-48.9	4	2	1	2				
10668	10'-6" x 6'-8"	44.0	-44.0	4	2	1	2				
12068	12'-0" x 6'-8"	40.6	-40.6	4	2	2	2				
9080	9'-0" x 8'-0"	38.1	-38.1	5	2	1	2				
10680	10'-6" x 8'-0"	33.2	-33.2	5	2	1	2				
12080	12'-0" x 8'-0"	29.6	-29.6	5	2	2	2				

PRODUCT RENEWED
 ACCEPTANCE No. 01-0122.01
 EXPIRATION DATE DEC 02 2001
 By Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE DECEMBER 03 1996
 By Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE No. 95-0825.08

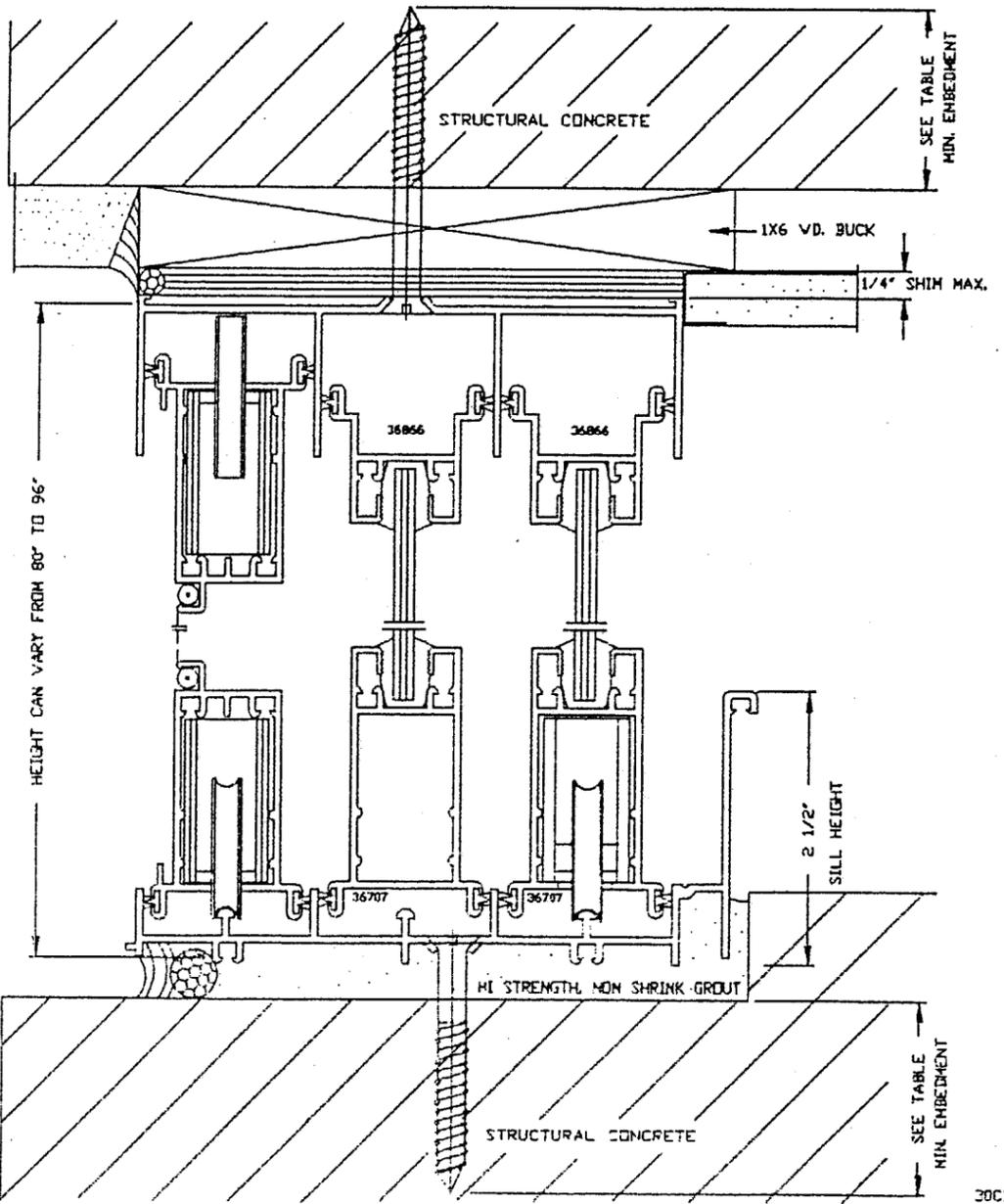
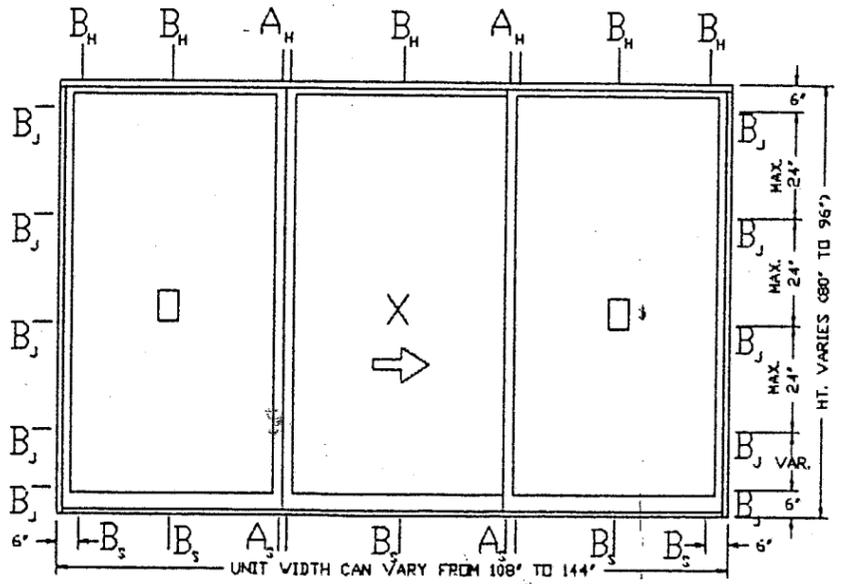


Table of Required Anchors - Structural Concrete/CBS Construction, for Test Report # 15934

Anchor	Substrate Type	Vmax (lb)	Use Anchor Type	Notes
Ah	2000 psi Concrete	378.7	2 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
As	2000 psi Concrete	378.7	2 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
Bh	2000 psi Concrete	146.2	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Bs	2000 psi Concrete	146.2	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Ah	4000 psi Concrete	378.7	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
As	4000 psi Concrete	378.7	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,5,8
Bh	4000 psi Concrete	146.2	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Bs	4000 psi Concrete	146.2	1 ea 1/4" Dia Tapcon x 1" Embedment	1,2,4,6,8,9
Bj	Hollow Concrete Block	162.3	1 ea 1/4" Dia Tapcon x 1 1/2" Embedment	1,2,3,4,7,9

- Notes:
1. Maximum shim space between sliding glass door frame and concrete/wood buck substrate = 1/4".
 2. Minimum 1/4" Diameter Tapcon Edge Distance from edge of concrete/block = 2 1/2".
 3. Minimum 1/4" Diameter Tapcon embedment for hollow concrete block = 1 1/2".
 4. Refer to "New Tapcon Design Data" and "ICBO Report #3370, October 1990".
 5. Locate all Type "A" Anchors within 6" of interlocker ends, per test mock-up..
 6. Locate Type "B" Head/Sill Anchors at 6" from frame ends and 21 5/8" O.C. Maximum, per test mock-up.
 7. Locate Type "B" Jamb Anchors at 5" from frame ends and 24" O.C. Maximum, per test mock-up.
 8. Elevation is scaled view of equivalent "test size" unit for "OXO" or "OXX" configuration.
 9. Locate Type "B" anchors for other size units per notes 6 and 7.



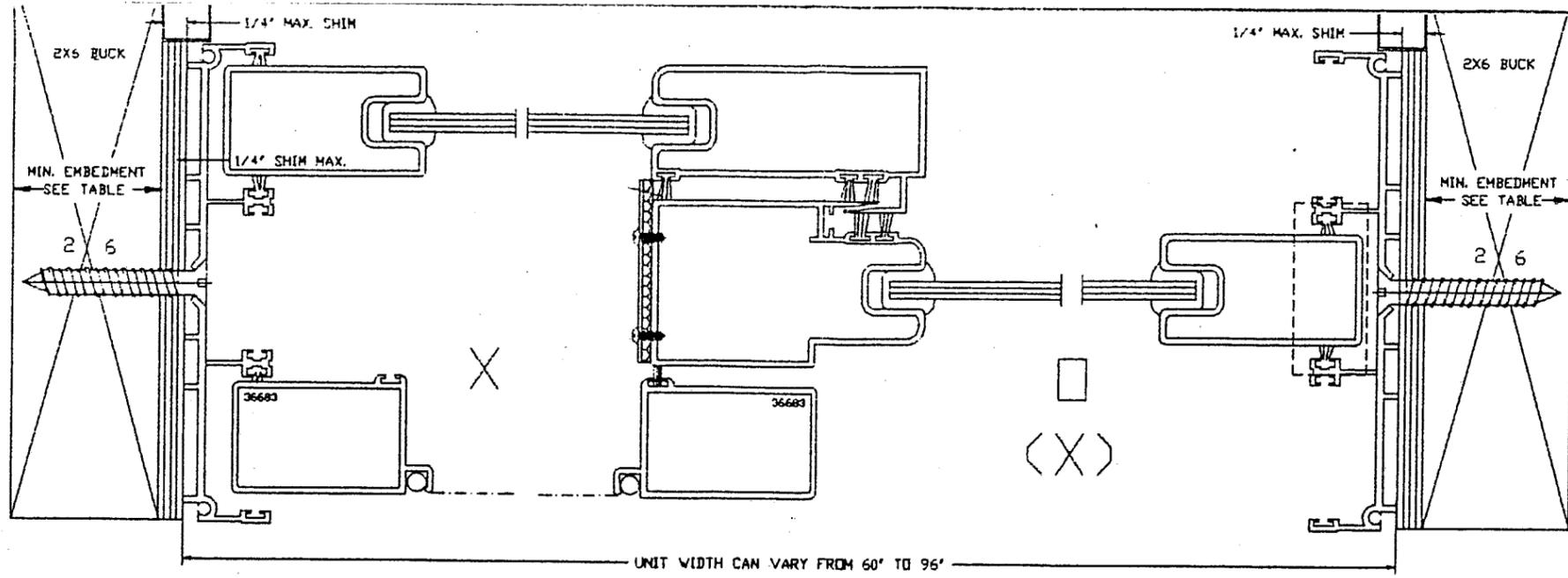
Glass Lite Information - OXO or OXX Configuration

Typical Glass Bite = 1/2"
Glass Lite Width = ((SGD Frame Width - 10) / 3)"
Glass Lite Height = (SGD Frame Height - 4)"

STRUCTURAL CONCRETE/CBS CONSTRUCTION

Ballard L. Argus, P.E.
 11/18/96
 Expires 2/28/97

TM Window & Door Co.
 601 NW 12 AVE., Pompano Beach, FL
 Product Description
 Series 310 Alum. Sliding Glass Door
 Glass Type
 3/16" Thick Tempered Glass
 Testing Laboratory: Miami Testing Lab.
 Test Report No.: 15934 10/14/94
 Dwg.No. 310-N1-C2 Config: OXO Sheet: 1 of 1 Date: 11/18/96 Rev. 11-18-96
 Netra Date Action: Product Approval Renewal



PRODUCT RENEWED
 ACCEPTANCE No. 99-1201.02
 EXPIRATION DATE December 02, 2000
 By Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

Comparative Analysis Table of Allowable Design Pressures, for Product Size Indicated, For Test Report # 15934

TMWD Product Code	Project SGD Frame Size OX Width (in) x Height (in)	Max Allow Dp (psi)		"B" Anch Each Jamb	"B" Anch Left Pan Head/Sill	"B" Anch Right Pan Head/Sill
		2 1/2" Sill Height + Pos Dp	- Neg Dp			
5068	5'-0" x 6'-8"	55.3	-55.8	4	2	2
6068	6'-0" x 6'-8"	48.7	-48.7	4	2	2
8068	8'-0" x 6'-8"	40.4	-40.4	4	2	2
5080	5'-0" x 8'-0"	44.6	-44.6	5	2	2
6080	6'-0" x 8'-0"	38.5	-38.5	5	2	2
8080	8'-0" x 8'-0"	31.2	-31.2	5	2	2

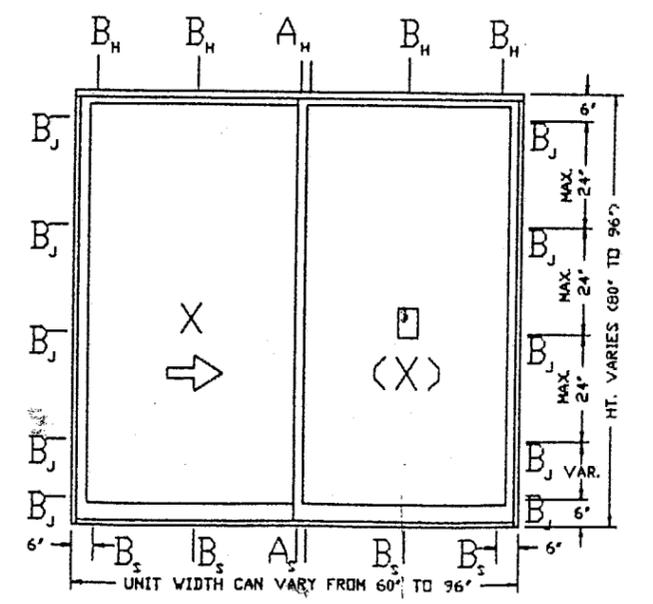
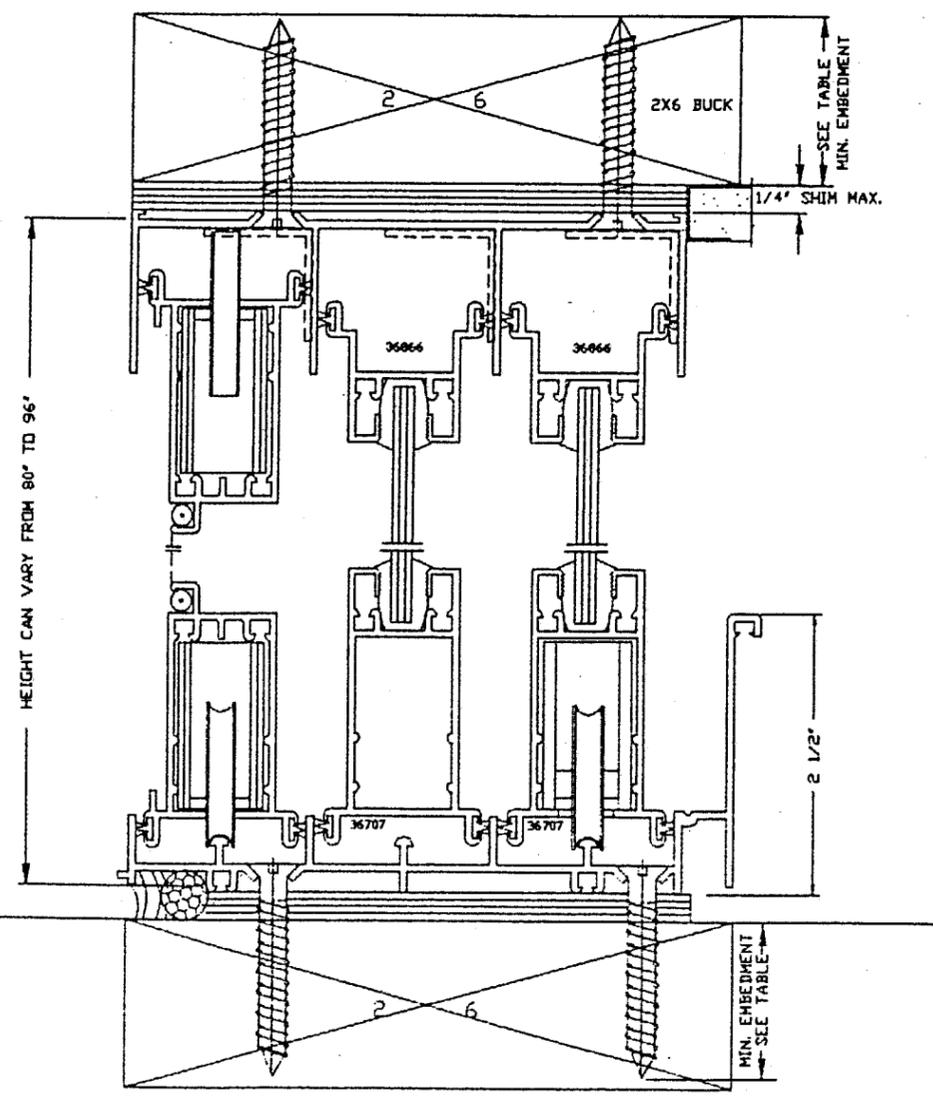
PRODUCT RENEWED
 ACCEPTANCE No. 01-0122.01
 EXPIRATION DATE DEC 02 2001
 By Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE DECEMBER 03, 1996
 BY Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE No. 95-0825.08

Table of Required Anchors - Wood Frame Construction, for Test Report # 15934

Anchor	Substrate Type	Vmax (lb)	Use Anchor Type	Notes
Ah	1 1/2" P.T. Sou. Pine	378.0	2ea #10 Sheet Metal Screw x 1 1/4" Penetration	1,2,3,6
As	1 1/2" P.T. Sou. Pine	378.0	2ea #10 Sheet Metal Screw x 1 1/4" Penetration	1,2,3,6
Bh	1 1/2" P.T. Sou. Pine	145.4	1 ea #10 Sheet Metal Screw x 1" Penetration	1,2,3,4,5
Bs	1 1/2" P.T. Sou. Pine	145.4	1 ea #10 Sheet Metal Screw x 1" Penetration	1,2,3,4,5
Bj	1 1/2" P.T. Sou. Pine	161.4	1 ea #12 Sheet Metal Screw x 1" Penetration	1,2,3,4,5

- Notes:
- Maximum shim space between sliding glass door frame and P.T. Southern Pine wood buck substrate = 1/4".
 - References: "Wood Engineering Handbook", U.S. Forest Products Laboratory, 1974. "Southern Pine Manual", Southern Forest Products Association, 1975.
 - Locate all Type "A" Anchors within 6" of interlocker ends, per test mock-up.
 - Locate Type "B" Head/Sill Anchors at 6" from frame ends and 21 5/8" O.C. Maximum, per test mock-up.
 - Locate Type "B" Jamb Anchors at 6" from frame ends and 24" O.C. Maximum, per test mock-up.
 - Elevation is scaled view of equivalent "test size" unit for "OX", "XO", or "XX" configuration.
 - Locate Type "B" anchors for other size units per notes 4 and 5.



Glass Lite Information - OX, XO, or XX Configuration
 Typical Glass Bite = 1/2"
 Glass Lite Width = ((SGD Frame Width - 6 1/16) / 2)"
 Glass Lite Height = (SGD Frame Height - 4)"

WOOD BUCK CONSTRUCTION

'39V15934'

(Signature)

Ballard L. August, P.E.
 11/18/96

TM Window & Door Co. 601 NW 12 AVE., Pompano Beach, FL	
Product Description Series 310 Alum. Sliding Glass Door	
Glass Type 3/16" Thick Tempered Glass	
Testing Laboratory: Miami Testing Lab.	
Test Report No: 15934 10/14/94	
Dwg.No. 310-N3-W1	Config: XO
Sheet: 1 of 1	Date: 11/23/96
Rev. 11-18-96	
Metro Dade Action: Product Approval Renewal	