



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
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Tischler Und Sohn (USA) LTD.
Six Suburban Avenue
Stamford, CT 06901

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Unclipped Steel Reinforced Mahogany Wood Mullion-Impact.

APPROVAL DOCUMENT: Drawing No. **TS-10**, sheets 1 through 10 of 10 dated 05/10/00 and last revised on 06/09/06, prepared by manufacturer, signed and sealed by Vipin N. Tolat, 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: Large and Small Missile Impact Resistant

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

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

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

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

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

This NOA **revises NOA # 05-0602.01** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

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



Handwritten initials and date: 5/16/06

NOA No 06-0118.01
Expiration Date: June 15, 2008
Approval Date: July 06, 2006
Page 1

Tischler Und Sohn (USA) LTD.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS** (transferred from file # **05-0602.01**)
1. Manufacturer's die drawings and sections.
 2. Drawing No. **TS-10**, sheets 1 through 10 of 10 dated 05/10/00 and last revised on 06/09/06, prepared by manufacturer, signed and sealed by Vipin N. Tolat, P.E.
- B. TESTS** (transferred from file # **05-0602.01**)
1. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with assembly & part drawing of a wood fixed window prepared by Construction Research Laboratory Inc., test report No. **6474**, dated 02/28/99, signed and sealed by Nariman S. Balsara, 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 202-94
3) Water Resistance Test, per FBC, TAS 202-94
Along with installation diagram and drawing prepared by Construction Research Laboratory Inc., test report No. **6145**, dated 06/23/95, revised and re-issued on 12-07-1995 signed and sealed by Santiago Arturo Tablada, P. E.
- C. CALCULATIONS**
1. Anchor verification calculation, complying with FBC-2004, dated 01-08-06 and last revised on 06/08/2006, prepared, signed and sealed by Vipin N. Tolat, P.E.
 2. Anchor verification calculations dated 05-27-2005, prepared, signed and sealed by Vipin N. Tolat, P.E. (transferred from file # **05-0602.01**)
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO)
- E. MATERIAL CERTIFICATIONS**
1. None.
- F. STATEMENTS** (transferred from file # **05-0602.01**)
1. Statement letter of conformance dated Jan 10, 2006, product compliance to FBC, 2004, prepared, signed sealed by Vipin N. Tolat, P.E.
 2. Statement letter of conformance and "No financial interest" dated 01-10-06, signed and sealed by Vipin N. Tolat, P.E.
 3. Statement letter of Lab compliance dated 01-28-1999, issued by Construction Research Laboratory Inc., and signed by Richard Sembello.
- G. OTHER**
1. This NOA revises # **05-0602.01**, expiring on 06/15/08.
 2. Test Proposal # **97-0043**, approved by BCCO.
 3. Other NOA associated with this file # 99-0224.08.


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 06-0118.01
Expiration Date: June 15, 2008
Approval Date: July 06, 2006



Tischler und Sohn (U.S.A.) Ltd.
 Six Suburban Avenue
 Stamford, CT 06901 USA
 Tel.: 203/674-0600
 Fax: 203/674-0601
 E-mail: dtwedt-tischler@worldnet.att.net

DADE COUNTY - FLORIDA
 TESTING OF WOOD WINDOWS & DOORS
 ELEVATION OF
 VERTICAL MULLIONS 143a & A

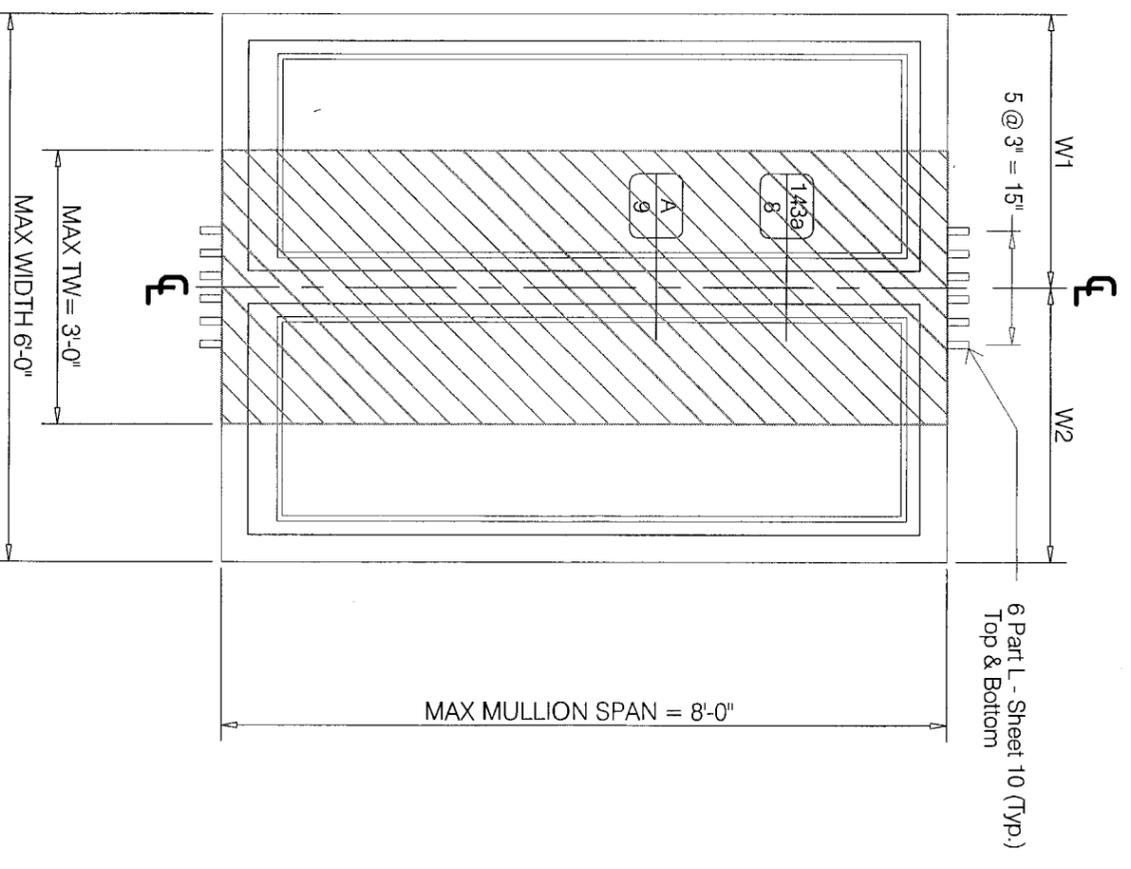
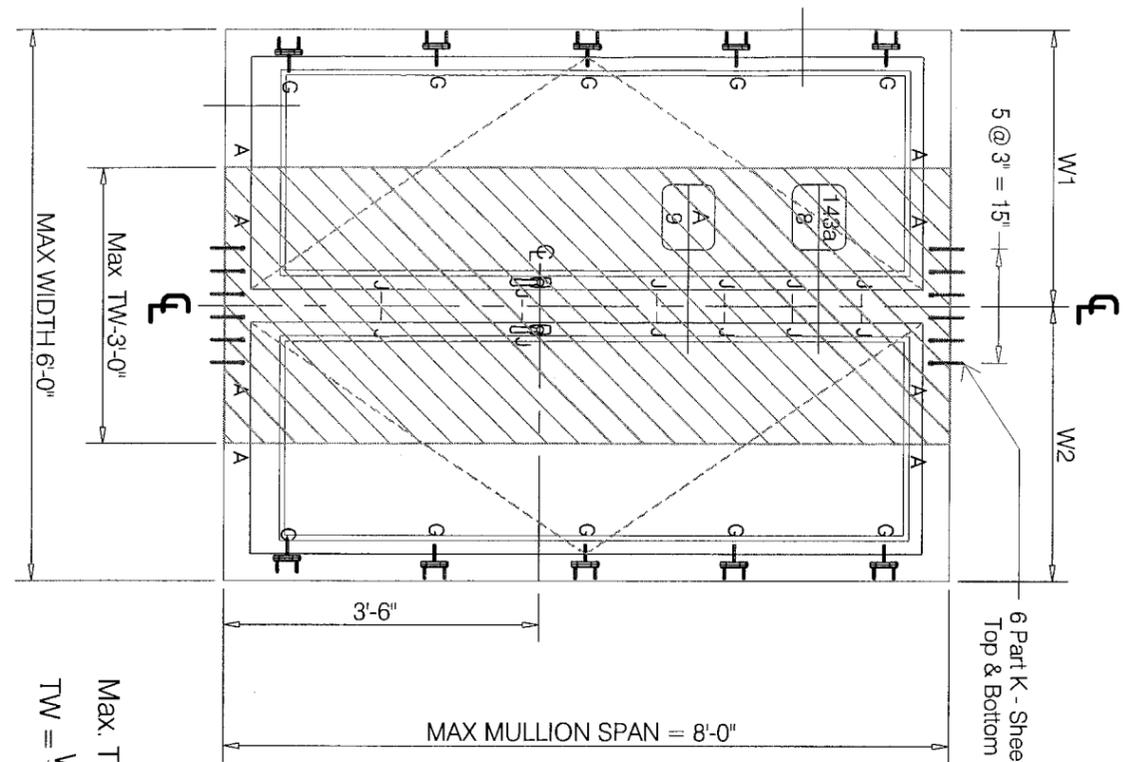
VIPIN N. TOLAT, P.E.
 FL. REG. # 12847

Date: May 10, 00 Revised: June 16, 06 Sheet 1 of 10 Scale: 1/2"=1'-0" (1:24)

Drawn by: K.M.

Drawing No. TS-10

Handwritten signature and date: 6/19/06



OPERABLE UNIT WITH CENTER VERTICAL MULLION (UNIT XX)

FIXED UNIT WITH CENTER VERTICAL MULLION (UNIT OO)

Design Pressure Rating (Positive)	+57.9 PSF
Design Pressure Rating (Negative)	-67.8 PSF

TW=TRIBUTARY WIDTH OF MULLION

INTERIOR ELEVATIONS
 ALL WOOD IS MAHOGANY

NOTES:

1. TISCHLER SERIES OPERABLE AND FIXED SHOWN ARE UNDER SEPARATE NOA.
2. FOR HARDWARE AND GLASS DETAILS, SEE SEPARATE TISCHLER SERIES NOA.
3. FOR ANCHORAGE DETAILS OF JAMBS, SILL, AND HEADERS, SEE SEPARATE TISCHLER SERIES NOA.
4. FOR QUANTITY OF SCREWS AND CLIPS AT EACH MULLION. SEE MULLION TABLE SHEET 7.
5. ALL SCREWS & CLIPS SHALL BE SPACED 3" O.C. AND 1" EDGE DISTANCE.
6. APPLIES TO BOTH INSWING AND OUTSWING UNITS.
7. THIS DESIGN COMPLIES WITH 2004 FLORIDA BUILDING CODE.
8. 33% STRESS INCREASE IN ALLOWABLE STRESS IS NOT USED IN DESIGN OF ANCHORS, EXCEPT IN WOOD AS ALLOWED FOR PER N.D.S 2001.
9. FOR PARTS K & L SEE SHEET 10.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-0118-01
 Expiration Date: JUNE 15, 2008
 By: *Shag J. Lusk*
 Title: *Chief Design Professional*



Tischler und Sohn (U.S.A.) Ltd.
 Six Suburban Avenue
 Stamford, CT 06901 USA
 Tel.: 203/674-0600
 Fax: 203/674-0601
 E-mail: dtwedt-tischler@wordnet.att.net

DADE COUNTY - FLORIDA
 TESTING OF WOOD WINDOWS & DOORS
 VERTICAL MULLIONS 143a & A

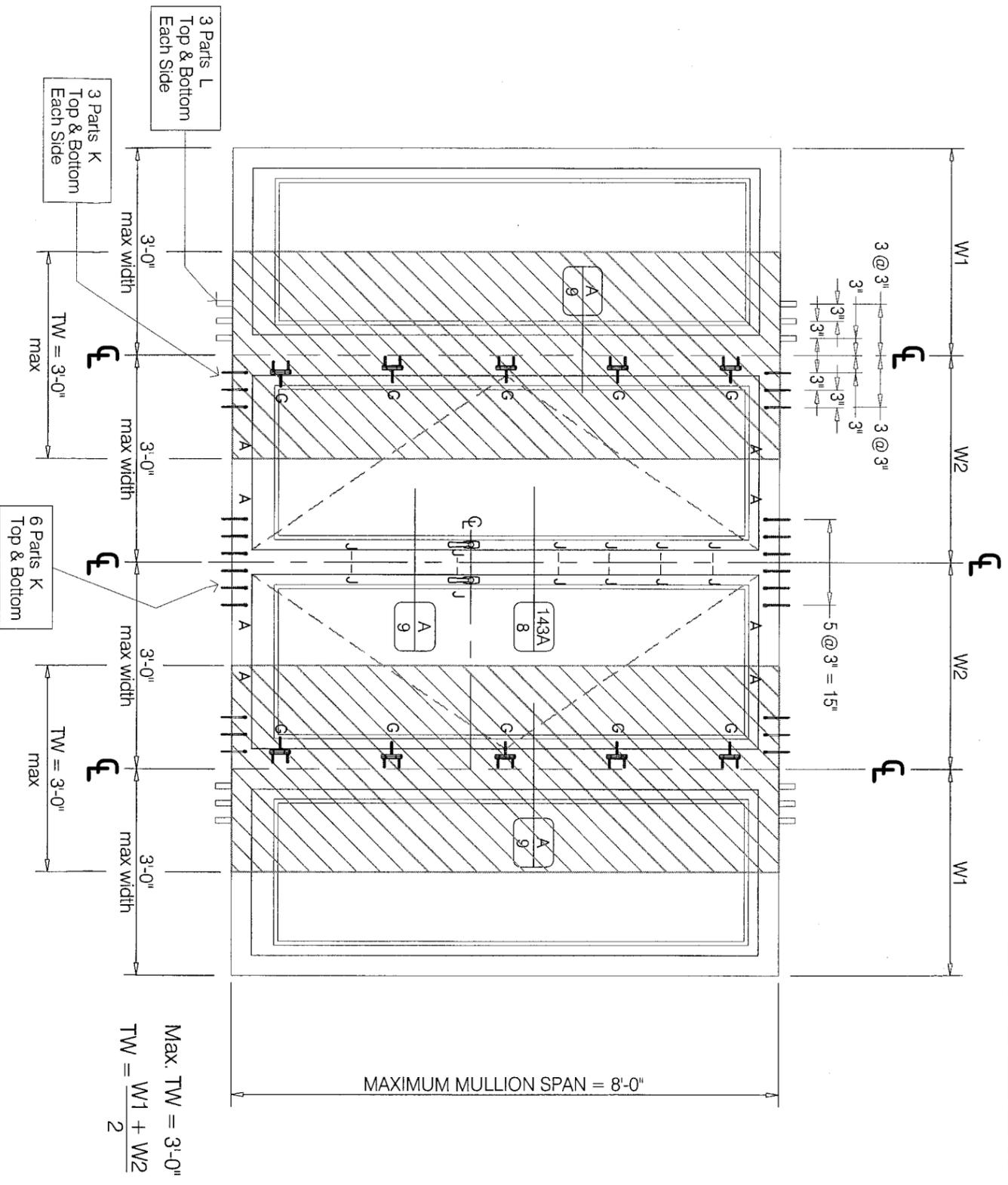
VIPIN N. TOLAT, P.E.
 FL. REG.# 12847

[Signature]
 6/19/06

Date: May 10, 00 Revised: June 16, 06 Sheet 2 of 10 Scale: 1/2"=1'-0" (1:24)

Drawn By: K.M.

Drawing No. TS-10



Design Pressure Rating (Positive)	+57.9 PSF
Design Pressure Rating (Negative)	-67.8 PSF

TW = TRIBUTARY WIDTH OF MULLION

COMBINATION FIXED LITE AND OPERABLE WINDOW WITH VERTICAL MULLION - (UNIT OXXO)

INTERIOR ELEVATIONS
 ALL WOOD IS MAHOGANY

- NOTES:
1. TISCHLER SERIES OPERABLE AND FIXED SHOWN ARE UNDER SEPARATE NOA.
 2. FOR HARDWARE AND GLASS DETAILS, SEE SEPARATE TISCHLER SERIES NOA.
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 8. 33% STRESS INCREASE IN ALLOWABLE STRESS IS NOT USED IN DESIGN OF ANCHORS, EXCEPT IN WOOD AS ALLOWED FOR PER N.D.S 2001.
 9. FOR PARTS K & L SEE SHEET 10.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-0118-Q1
 Expiration Date June 15, 2008
[Signature]
 Technical Director Product Control
 Division



Tischler und Sohn (U.S.A.) Ltd.
 Six Suburban Avenue
 Stamford, CT 06901 USA
 Tel.: 203/674-0600
 Fax: 203/674-0601

E-mail: dtweid-tischler@worldnet.att.net

DADE COUNTY - FLORIDA
 TESTING OF WOOD WINDOWS & DOORS

ELEVATIONS OF
 HORIZONTAL MULLION 143a

VIPIN N. TOLAT, P.E.
 FL. REG. # 12847

Call for details
 6/15/08

Date: May 10, 00

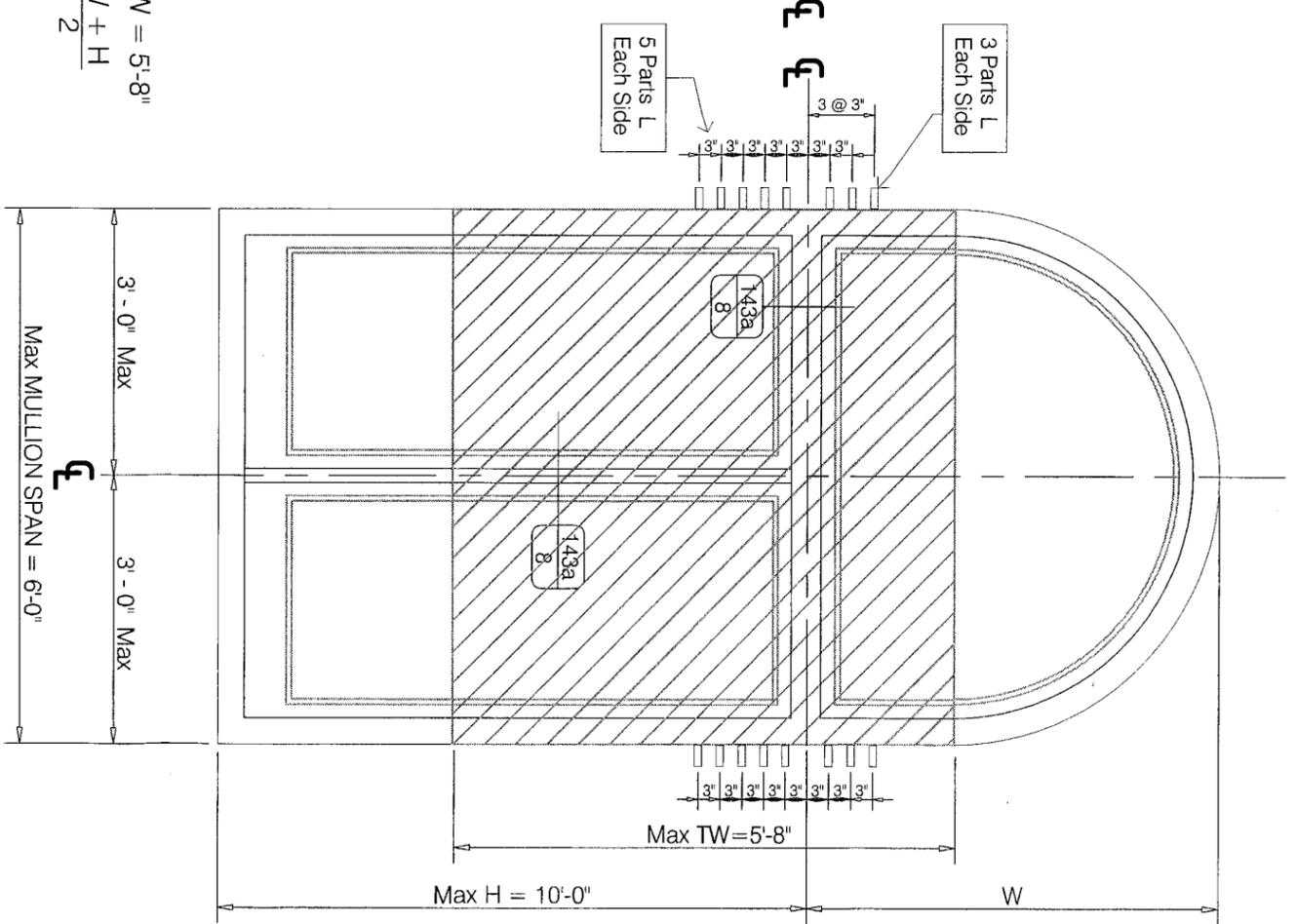
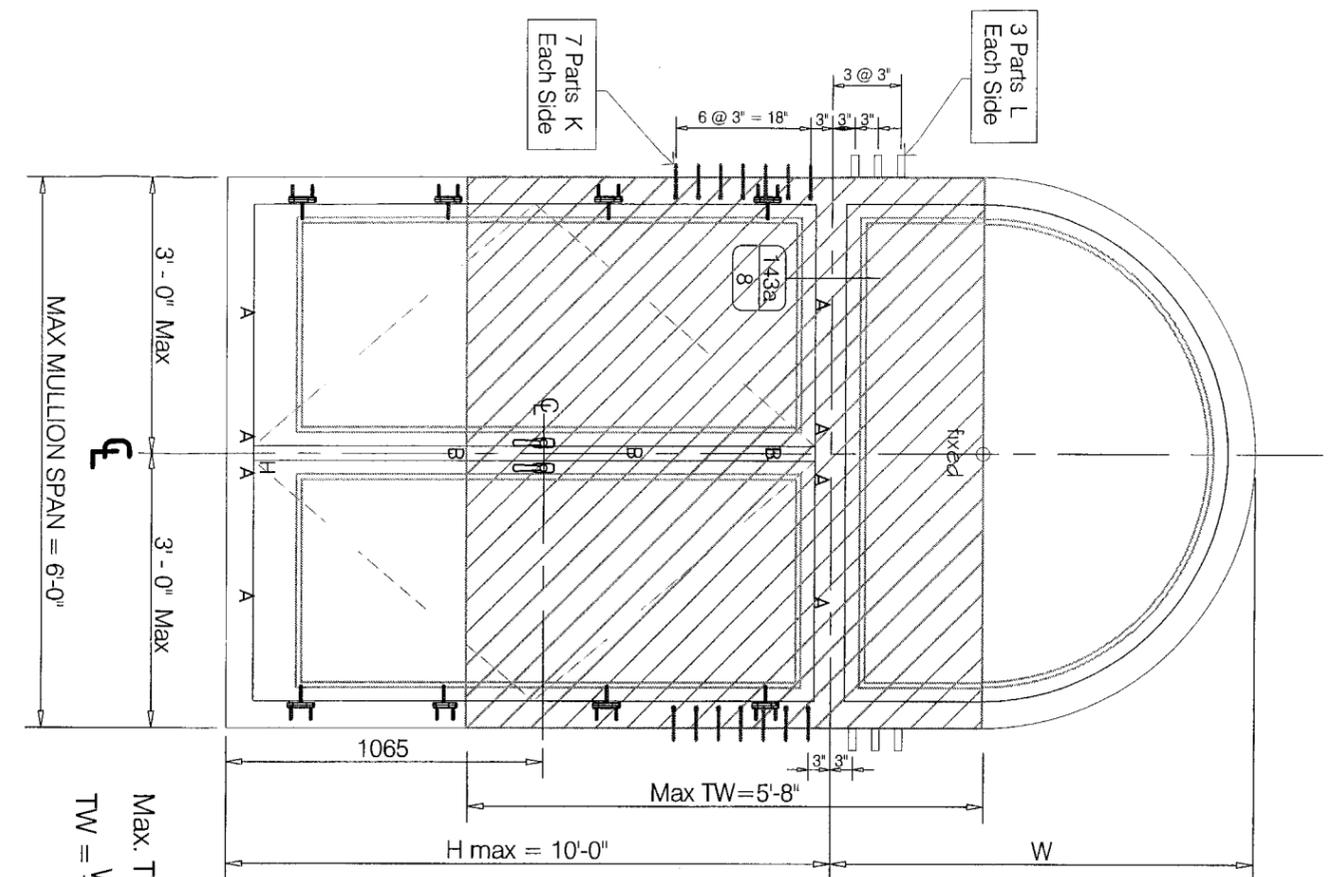
Revised: June 16, 06

Sheet 3 of 10

Scale: 1/2"=1'-0" (1:24)

Drawn by: K.M.

Drawing No. TS-10



XX UNIT WITH CURVED FIXED TRANSOM
 XX WITH HORIZONTAL MULLION

Design Pressure Rating (Positive)	+57.9 PSF
Design Pressure Rating (Negative)	-67.8 PSF

INTERIOR ELEVATIONS
 ALL WOOD IS MAHOGANY

OO UNIT WITH CURVED FIXED TRANSOM
 WITH HORIZONTAL MULLION

TW = TRIBUTARY WIDTH OF MULLION

$$\text{Max. TW} = 5'-8''$$

$$\text{TW} = \frac{W + H}{2}$$

NOTES:

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9. FOR PARTS K & L SEE SHEET 10.

- 1 FOR OPERABLE LIGHTS BELOW TRANSOM, "H" MAX = 10'-0"
- 2 FOR FIXED LIGHTS BELOW TRANSOM Max H = 10'-0"

"W"	"H"	"TW"
2'-4"	9'-0"	5'-8"
3'-10"	7'-6"	5'-8"
4'-8"	6'-8"	5'-8"
3'-4"	8'-0"	5'-8"
1'-4"	10'-0"	5'-8"

PRODUCT REVISED
 in compliance with the Florida Building Code
 Acceptance No. 06-0118-01
 Registration Date: 7/15/08

Sheng J. Li
 Senior Dept. Product Engineer



Tischler und Sohn (U.S.A.) Ltd.
 Six Suburban Avenue
 Stamford, CT 06901 USA
 Tel.: 203/674-0600
 Fax: 203/674-0601
 E-mail: dtw@tischler.com
 @worldnet.att.net

DADE COUNTY - FLORIDA
 TESTING OF WOOD WINDOWS & DOORS
 ELEVATIONS OF
 HORIZONTAL MULLION 143a

VIPIN N. TOLAT, P.E.
 FL. REG. # 12847

Drawn by: K.M.

Drawing No. TS-10

TISCHLER UND SOHN

Date: May 10, 00

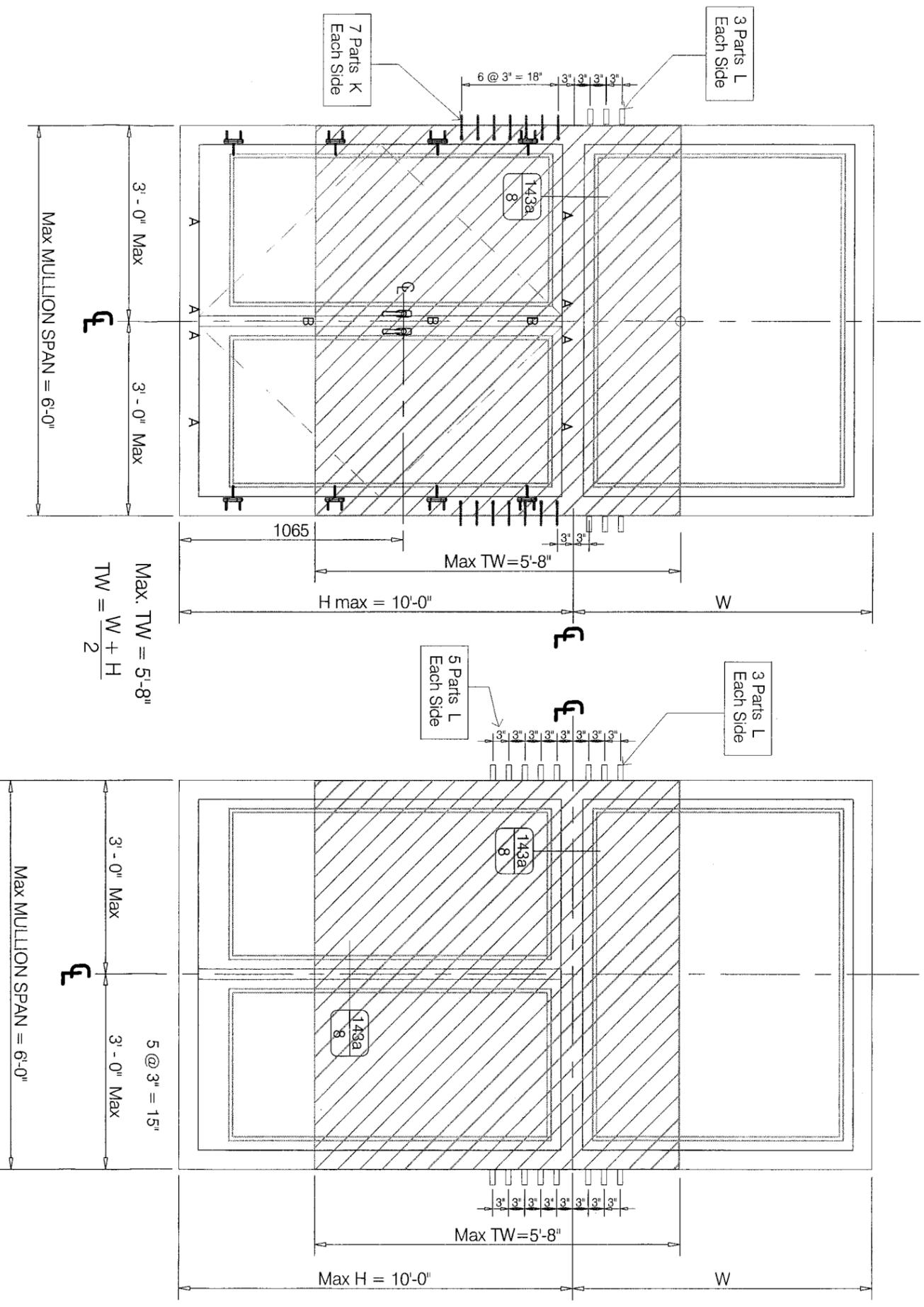
Revised: June 16, 06

Sheet 4 of 10

Scale: 1/2"=1'-0" (1:24)

Drawn by: K.M.

Drawing No. TS-10



XX UNIT WITH FIXED TRANSOM
 WITH HORIZONTAL MULLION

Design Pressure Rating (Positive)	+57.9 PSF
Design Pressure Rating (Negative)	-67.8 PSF

OO UNIT WITH FIXED TRANSOM
 UNIT WITH FIXED TRANSOM

TW = TRIBUTARY WIDTH OF MULLION

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9. FOR PARTS K & L SEE SHEET 10.

INTERIOR ELEVATIONS
 ALL WOOD IS MAHOGANY

1. FOR OPERABLE LIGHTS BELOW TRANSOM "H" MAX = 10'-0"
2. FOR FIXED LIGHTS BELOW TRANSOM Max H = 10'-0"

"W"	"H"	"TW"
1'-4"	10'-0"	5'-8"
2'-4"	9'-0"	5'-8"
3'-4"	8'-0"	5'-8"
3'-10"	7'-6"	5'-8"
4'-8"	6'-8"	5'-8"

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 26-0118-01
 Expiration Date June 15, 2008
 By: *Thomas L. Chappell*
 District District Product Control
 Division



Tischler und Sohn (U.S.A.) Ltd.
 Six Suburban Avenue
 Stamford, CT 06901 USA
 Tel.: 203/674-0600
 Fax: 203/674-0601
 E-mail: dtwedt-tischler@worldnet.att.net

DADE COUNTY - FLORIDA
 TESTING OF WOOD WINDOWS & DOORS
 HORIZONTAL MULLION "A"

VIPIN N. TOLAT, P.E.
 FL. REG. # 12847

Vipin N. Tolat
 6/19/06

Date: May 10, 00

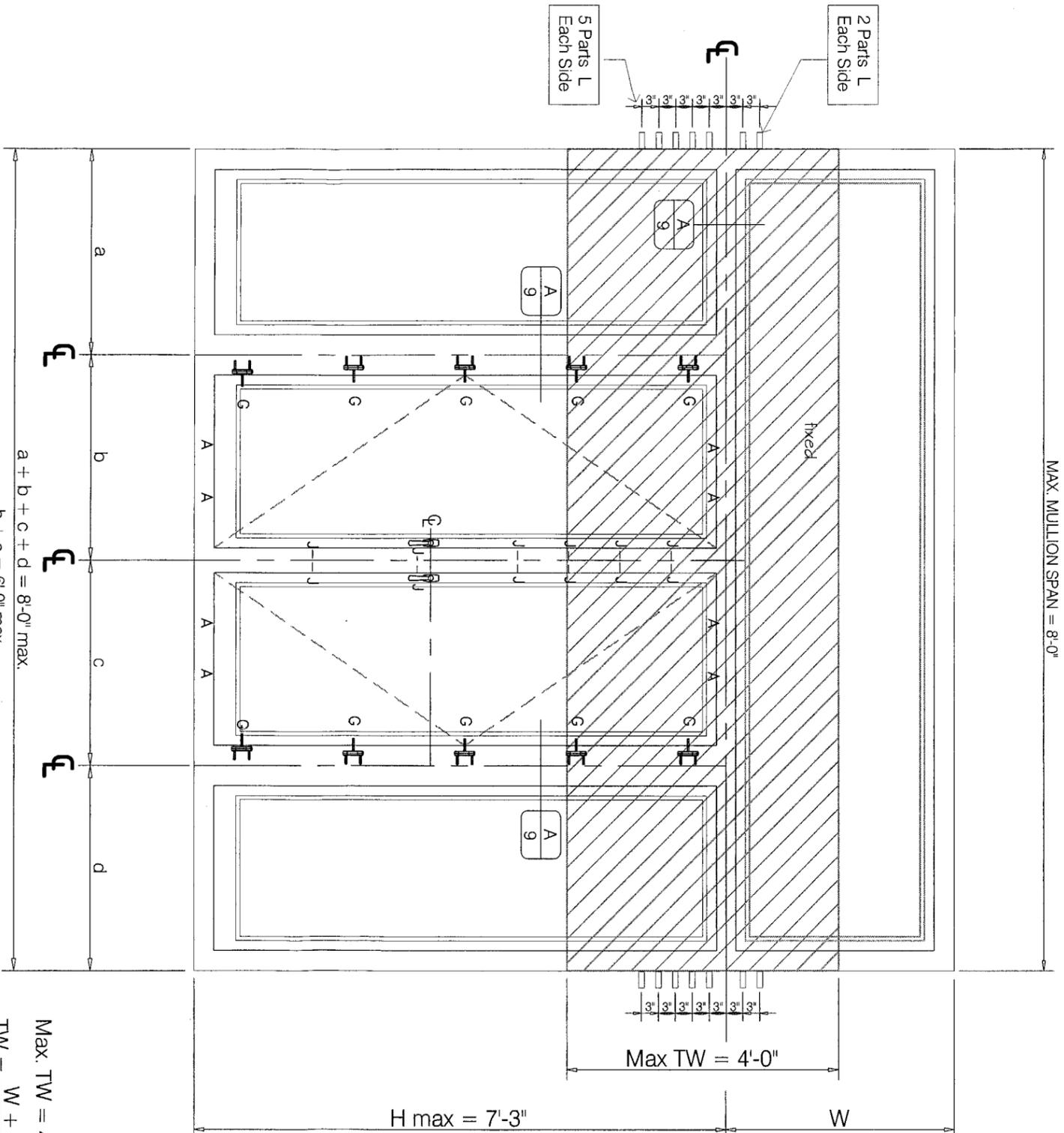
Revised: June 16, 06

Sheet 5 of 10

Scale: 1/2"=1'-0" (1:24)

Drawn by: K.M.

Drawing No. TS-10



OXXO UNIT WITH FIXED TRANSOM WITH HORIZONTAL MULLION

$$\text{Max. TW} = 4'-0''$$

$$\text{TW} = \frac{W + H}{2}$$

"W"	"H"	"TW"
1'-4"	6-8"	4'-0"
1'-0"	7'-0"	4'-0"
0'-10"	7'-2"	4'-0"
0'-9"	7'-3"	4'-0"

PRODUCT APPROVED
 as complying with the Florida
 Building Code
 Approval No. 06-0118-01
 Expiration Date: 12/31/2008
 By: *Sheng L. Liang*
 Miami Dade Product Control
 Division

"a"	"b"	"c"	"d"
1'-0"	3'-0"	3'-0"	1'-0"
2'-0"	2'-0"	2'-0"	2'-0"
1'-6"	2'-6"	2'-6"	1'-6"

NOTES:

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2. FOR HARDWARE AND GLASS DETAILS, SEE SEPARATE TISCHLER SERIES NOA.
3. FOR ANCHORAGE DETAILS OF JAMBS, SILL, AND HEADERS, SEE SEPARATE TISCHLER SERIES NOA.
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5. ALL SCREWS & CLIPS SHALL BE SPACED 3" O.C. AND 1" EDGE DISTANCE.
6. APPLIES TO BOTH INSWING AND OUTSWING UNITS.
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9. FOR PARTS K & L SEE SHEET 10.



Tischler und Sohn (U.S.A.) Ltd.
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Stamford, CT06901 USA
Tel.: 203/674-0600
Fax: 203/674-0601
E-mail: dtw@tdt-tischler.com
@worldnet.att.net

DADE COUNTY - FLORIDA
TESTING OF WOOD WINDOWS & DOORS
HORIZONTAL MULLION "A"

VIPIN N. TOLAT, P.E.
FL. REG. # 12847

John Tolat
12/10

Date: May 10, 00

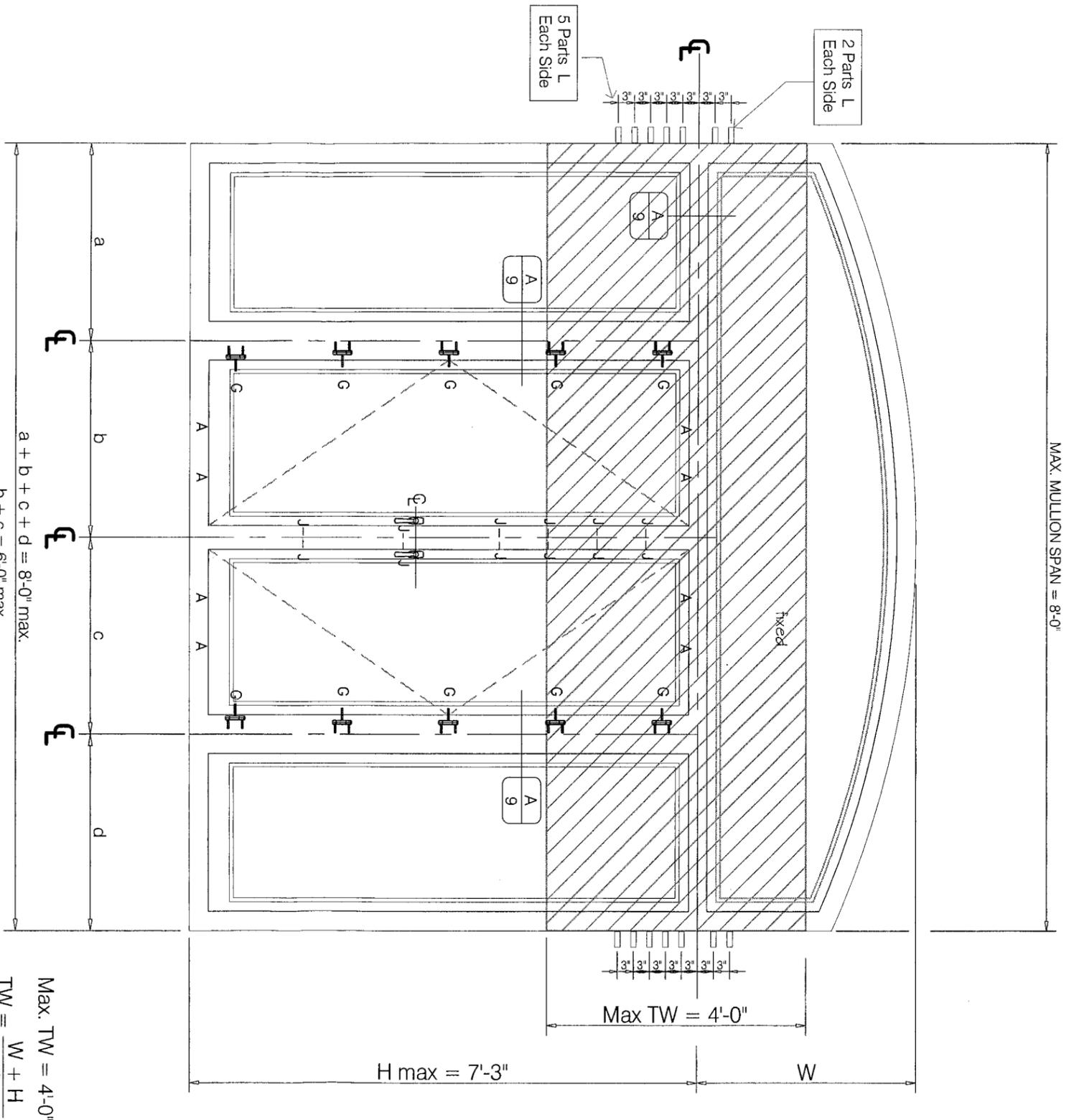
Revised: June 16, 06

Sheet 6 of 10

Scale: 1/2" = 1'-0" (1:24)

Drawn by: K.M.

Drawing No. TS-10



OXOXO UNIT WITH CURVED TRANSOM WITH HORIZONTAL MULLION

$$a + b + c + d = 8'-0" \text{ max.}$$

$$b + c = 6'-0" \text{ max.}$$

$$\text{Max. TW} = 4'-0"$$

$$\text{TW} = \frac{W + H}{2}$$

"W"	"H"	"TW"
1'-4"	6'-8"	4'-0"
1'-0"	7'-0"	4'-0"
0'-10"	7'-2"	4'-0"
0'-9"	7'-3"	4'-0"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 018-01
Expiration Date JUNE 15, 2008
By Shree L. Lankar
Miami Dade Product Control
Division

"a"	"b"	"c"	"d"
1'-0"	3'-0"	3'-0"	1'-0"
2'-0"	2'-0"	2'-0"	2'-0"
1'-6"	2'-6"	2'-6"	1'-6"

NOTES:

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DADE COUNTY - FLORIDA
 TESTING OF WOOD WINDOWS & DOORS

MULLION TABLE

VIPIN N. TOLAT, P.E.
 FL. REG.# 12847

[Signature]
 2/13/08

Date: May 10, 00 Revised: June 16, 06 Sheet 7 of 10 Scale: 1/2"=1'-0" (1:24)

Drawn by: K.M.

Drawing No. TS-10

DESIGN PRESSURES: +59.7 psf - 67.8 psf

MULLION MAHOGANY WOOD	Orientation	Maximum SPAN	Maximum TRIBUTARY WIDTH "TW"	Number of 6 mm Screws each end of Mullion/Total	Number of Steel Clips each end of Mullion/Total
143a 9 1/4" x 2 13/16" OVERALL Reinforced Width 0.59" x1.575" (15mm x 40 mm) Steel Plate	Vertical	8'-0"	3'-0"	6/12	6/12
				See sheet 1,2	See sheet 1
				3/6	3/6
	Vertical	8'-0"	3'-0"	Below Horizontal	Above Horizontal
				7/14	3/6
				See sheet 3, 4	Below Horizontal 5/10 (see sheet 3, 4)
Horizontal	6'-0"	3'-0"	6/12	6/12	
			See sheet 1	See sheet 1	
			3/6	3/6	
Vertical	8'-0"	3'-0"	3/6	3/6	
			See sheet 2	See sheet 2	
			-	Above Horizontal 2/4	
Horizontal	8'-0"	4'-0"	-	Below Horizontal 5/10(see sheet 5,6)	

A
 10" x 2 13/16"
OVERALL

Reinforced Width
 0.79" x3.15"
 (20 mm x 80 mm)
 Steel Plate

NOTE: NUMBER OF FASTENERS SHOWN ARE FOR A
 MAXIMUM SHIM SPACE OF 3/8"

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-0118-01
 Expiration Date JUNE 15, 2008
 By Vipin N. Tolat
 National Dade District
 Division



Tischler und Sohn (U.S.A.) Ltd.
 Six Suburban Avenue
 Stamford, CT 06901 USA
 Tel.: 203/674-0600
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DADE COUNTY - FLORIDA
 TESTING OF WOOD WINDOWS & DOORS
 MULLION 143a

MULLION 143a

VIPIN N. TOLAT, P.E.
 FL. REG. # 12847

TISCHLER UND SOHN

FIXED/OPERABLE CONFIGURATION

Date: May 10, 00

Revised: June 16, 06

Sheet 8 of 10

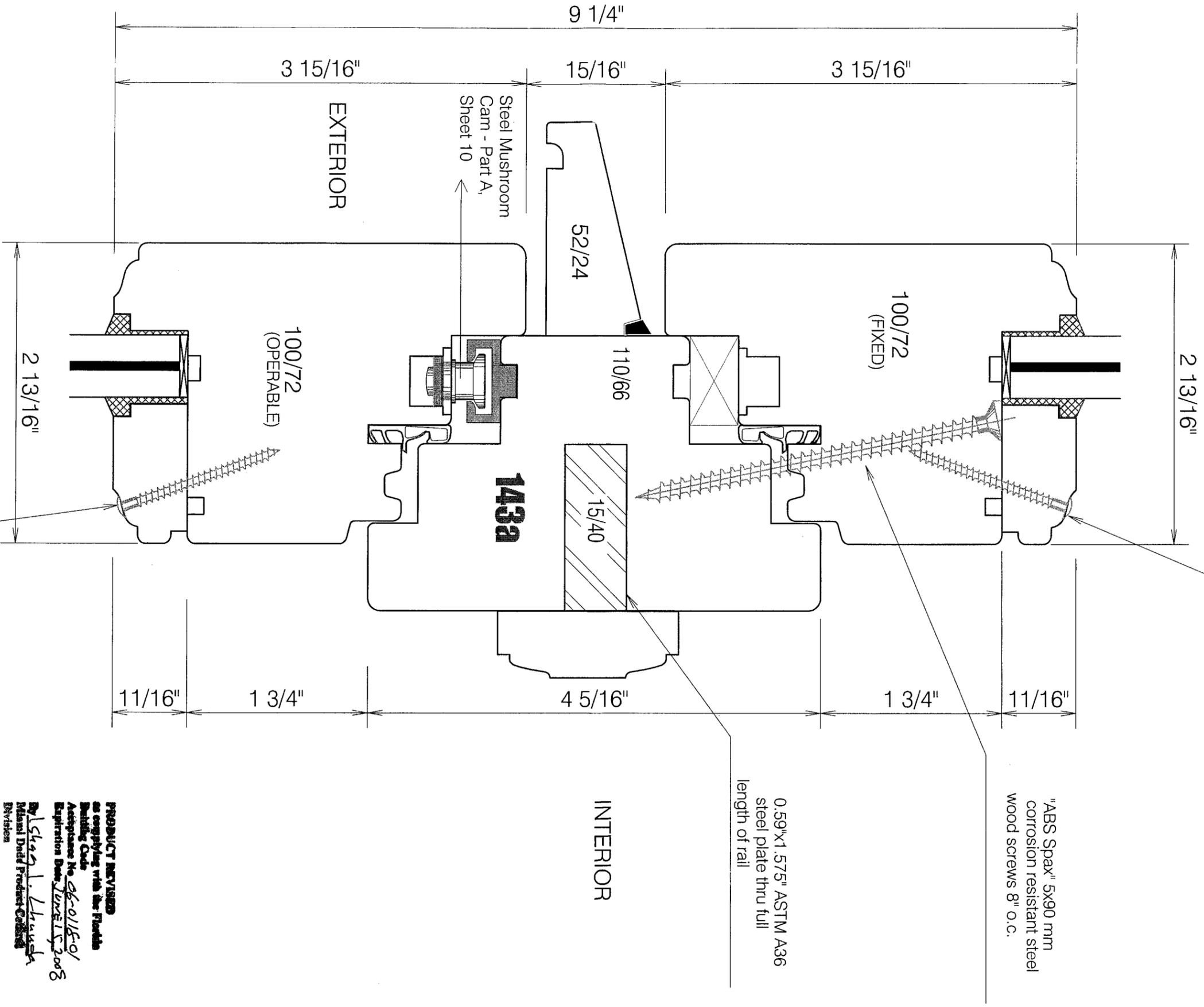
Scale: Full (1:1)

Drawn by: K.M.

Drawing No. TS-10

Handwritten signature and date: 6/13/06

distance between screws from
 each corner & 150-200 mm (6"-8")
 (lenticular head), located 50 mm [1 15/16"]
 brass-nickel wood screws - 3.5 x 45mm



- Notes:
1. For fixed/operable configuration, 5 x 90mm screws at 8" o.c. shall be used to connect both 100/72 sash members to framing members 110/66.
 2. For operable/operable configuration, steel mushroom cams shall be used to connect both 100/72 sash members to framing member 110/66.

distance between screws from
 each corner & 150-200 mm (6"-8")
 (lenticular head), located 50 mm [1 15/16"]
 brass-nickel wood screws - 3.5 x 45mm

PRODUCT REVISIONS
 as complying with the Florida
 Building Code
 Acceptance No. 06-0116-01
 Expiration Date June 15, 2008
 By Shag L. L. L...
 National Wood Product Council
 Division



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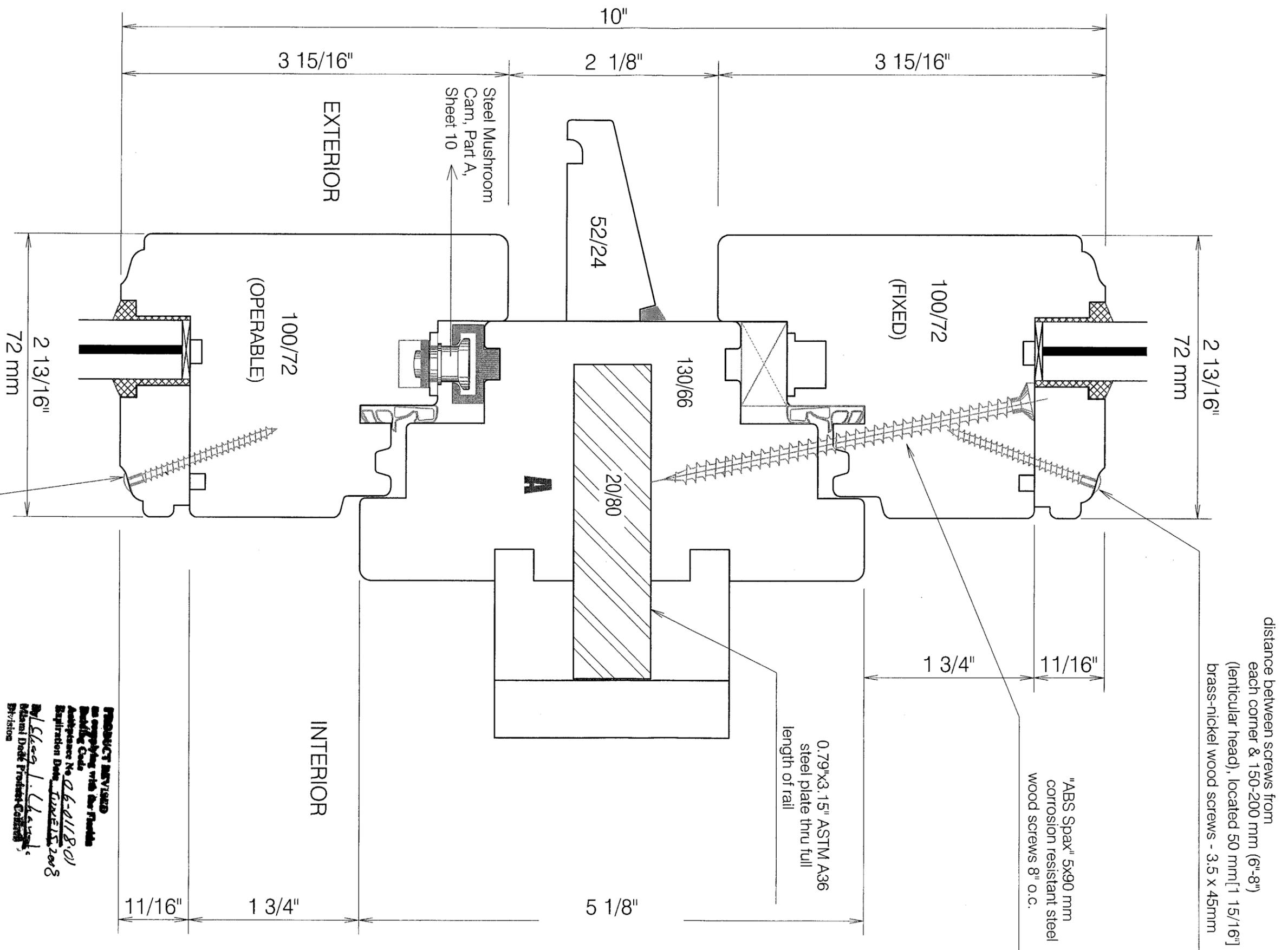
DADE COUNTY - FLORIDA
 TESTING OF WOOD WINDOWS & DOORS
 MULLION A
 FIXED/OPERABLE CONFIGURATION

VIPIN N. TOLAT, P.E.
 FL. REG. # 12847

Date: May 10, 00 Revised: June 16, 06 Sheet 9 of 10 Scale: Full (1:1)

Drawn by: K.M. Drawing No. TS-10

[Signature]
 2/22/19



Notes: 1. FOR FIXED/FIXED CONFIGURATION, 5 X 90mm SCREWS AT 8" O.C. SHALL BE USED TO CONNECT BOTH 100/72 SASH MEMBERS TO FRAMING MEMBER 130/66.
 2. FOR OPERABLE/OPERABLE CONFIGURATIONS, STEEL MUSHROOM CAMS SHALL BE USED TO CONNECT BOTH 100/72 SASH MEMBERS TO FRAMING MEMBER 130/66.

distance between screws from each corner & 150-200 mm (6"-8") (lenticular head), located 50 mm [1 15/16"] brass-nickel wood screws - 3.5 x 45mm

PRODUCT REVISED
 in compliance with the Florida Building Code
 Amendment No. 06-0118.01
 Expiration Date: JUNE 15, 2008
 By: Steve L. L...
 Material Dept Product Control Division

Vipin N. Tolat, P.E. FL. Reg. (Civil) #12847 15123 Lantern Creek Lane Houston, Tx. 77068



Tischler und Sohn (U.S.A.) Ltd.
 Six Suburban Avenue
 Stamford, CT 06901 USA
 Tel.: 203/674-0600
 Fax: 203/674-0601
 E-mail: dtweid@tischler.net

DADE COUNTY - FLORIDA
 TESTING OF WOOD WINDOWS & DOORS
 ANCHOR SCREWS & CLIPS

VIPIN N. TOLAT, P.E.
 FL. REG. # 12847

TISCHLER und SOHN

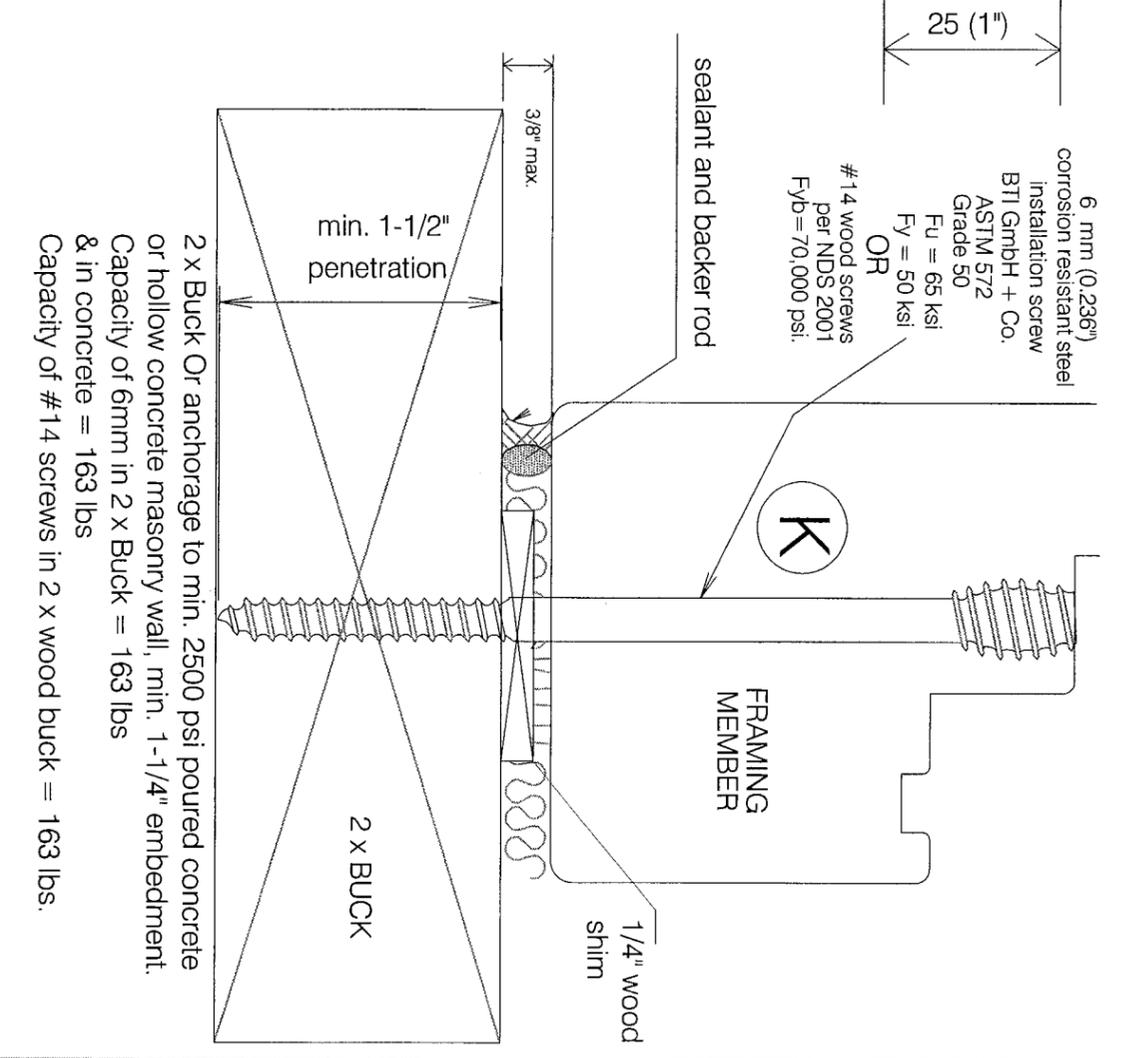
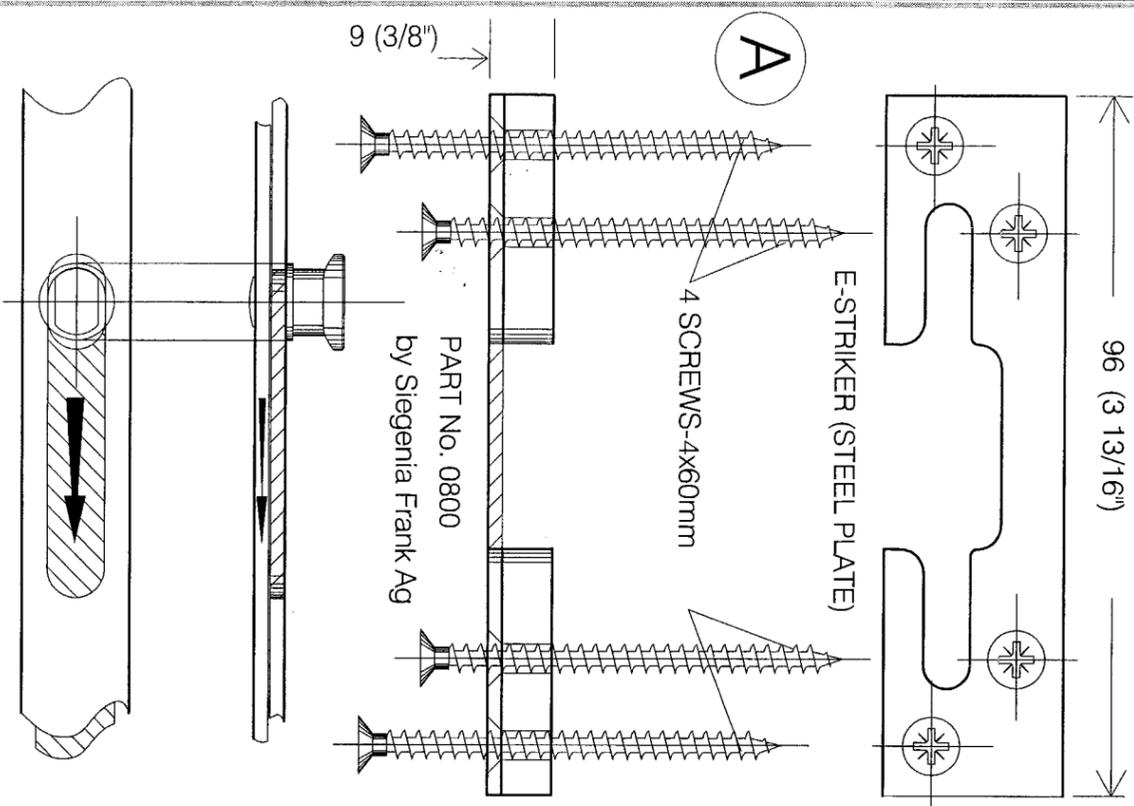
Date: May 10, 00

Revised: June 16, 06

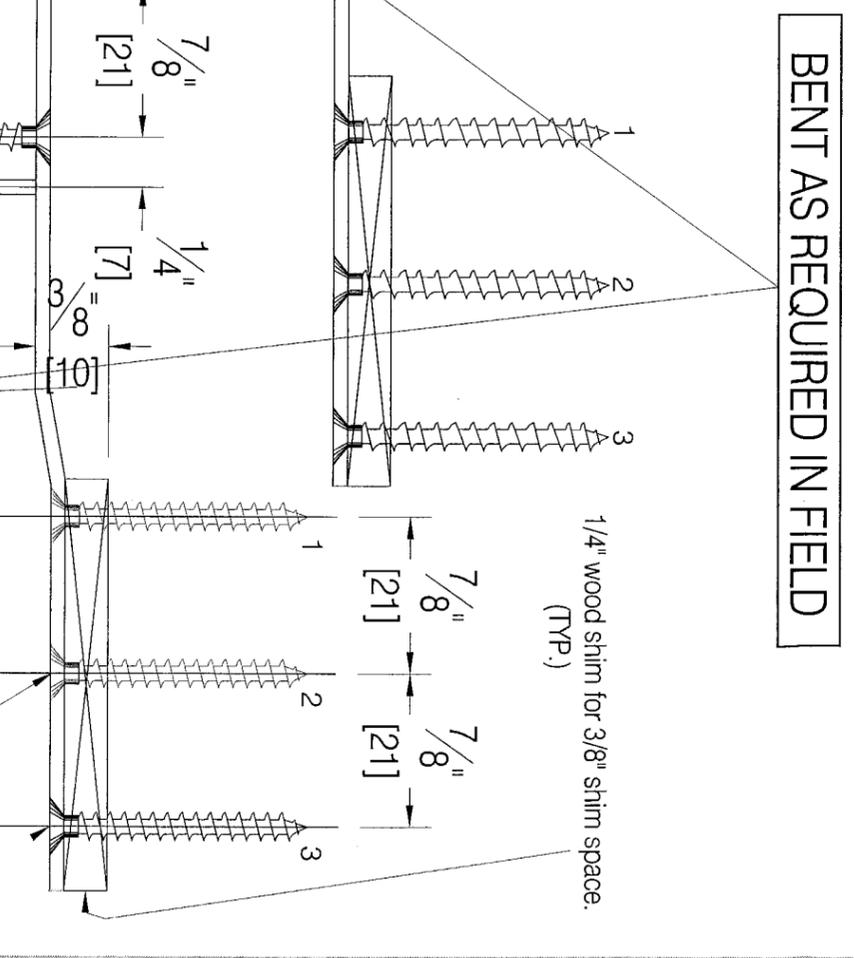
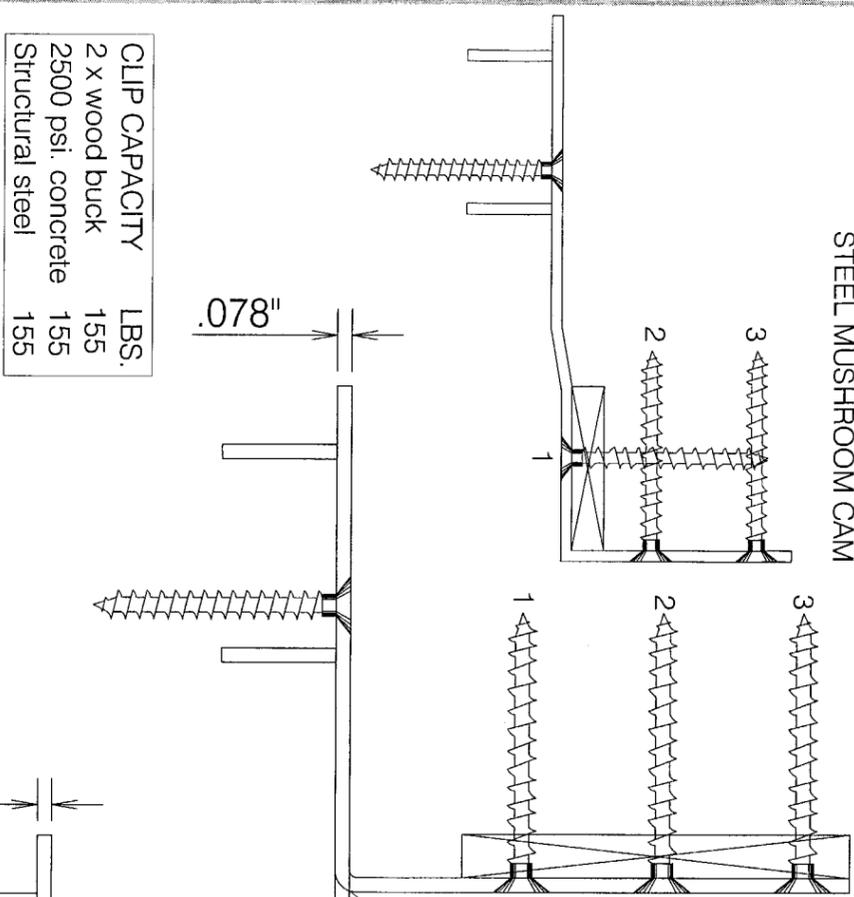
Sheet 10 of 10

Scale: Full (1:1)

Drawn by: K.M. Drawing No. TS-10



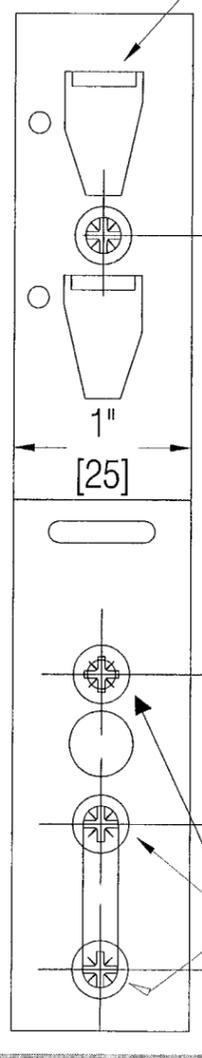
2 x Buck Or anchorage to min. 2500 psi poured concrete or hollow concrete masonry wall, min. 1-1/4" embedment.
 Capacity of 6mm in 2 x Buck = 163 lbs
 & in concrete = 163 lbs
 Capacity of #14 screws in 2 x wood buck = 163 lbs.



CLIP CAPACITY	LBS.
2 x wood buck	155
2500 psi. concrete	155
Structural steel	155

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-011K-01
 Expires Date: June 15, 2008
 By: Shah J. Uland
 Senior Drafting Engineer

approximate location of
 screws connected to structure



For anchorage to 2X wood buck use one 4mm x 35mm (0.157"x1.375") wood screw at locations 1, 2 & 3. For anchorage to min. 2500 PSI concrete, use one 1/4" dia. Tapcon concrete anchor w/ 1" concrete embedment at locations 1 & 3. For anchorage to structural steel, use one #12 self-tapping screw w/ 1/8" embedment at locations 1 & 2 or at 2 & 3 or at 1 & 3.

connected to door frame
 5 1/2" [140]
 connected to structure
 CORROSION RESISTANT STEEL CLIP (.078" thick, min Fy = 33 KSI).

Shah J. Uland
 6/15/06