



MIAMI-DADE COUNTY
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)

www.miamidade.gov/buildingcode

Luxbau, LLC
2400 Centrepark West Dr. #150
West Palm Beach, Fl 33409

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: Clipped Steel Tube Mullion for Luxbaum Wood Windows & Doors - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1201, titled "Luxbaum Windows & Doors Steel Clipped Mullion for Wooden Doors & Windows", sheets 1 through 5 of 5, dated 02/05/03 with revision B1 dated 02/26/08, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Renewal 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.

REVISION 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 **renews NOA # 05-1018.07** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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



NOA No. 08-0206.13
Expiration Date: June 26, 2013
Approval Date: June 26, 2008
Page 1

Luxbau, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1201**, titled "Luxbaum Windows & Doors Steel Clipped Mullion for Wooden Doors & Windows", sheets 1 through 5 of 5, dated 02/05/03 with revision B1 dated 02/26/08, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, 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 203-94along with marked-up drawings and installation diagram of a steel clipped mullion, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0271-0717.02** dated 7/24/02, signed and sealed by Vinu Abraham, P.E.
(Submitted under NOA# 03-0326.04)

C. CALCULATIONS

1. Revised Anchor Calculations and structural analysis complying with FBC 2004 and 2007, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 08/11/05 with the latest revision dated 04/24/06, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS

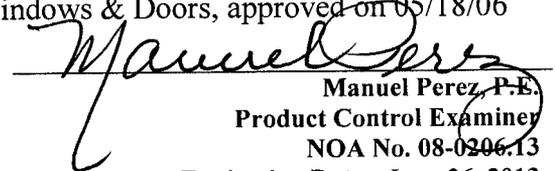
1. None

F. STATEMENTS

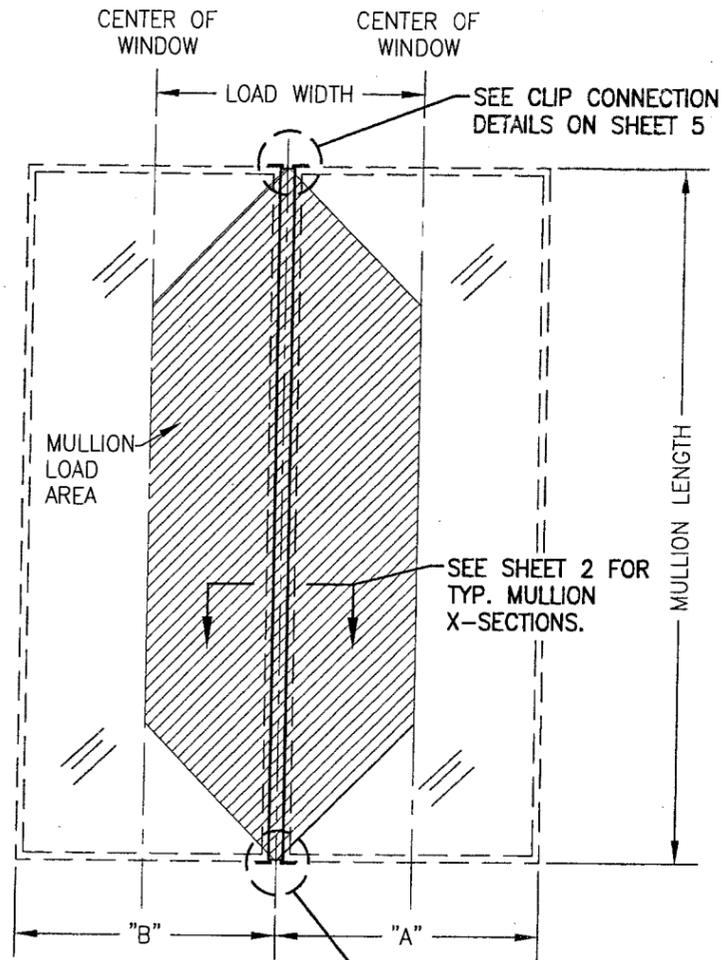
1. Statement letter of conformance, dated 01/23/08, signed and sealed by Warren Schaefer, P.E.
2. Laboratory compliance letter for Test Report No. **HTL 0271-0717.02**, issued by Hurricane Test Laboratory, Inc., dated 2/28/03, signed and sealed by Vinu Abraham, P.E. *(Submitted under NOA# 03-0326.04)*
3. Distributor Agreement document in conformance to BCCO guidelines dated May 29, 2007 signed by Mr. Putu Udayana and Mr. Lazlo Wagner.

G. OTHER

1. Notice of Acceptance No. **05-1018.07**, issued to Luxbau, LLC, for Luxbaum Windows & Doors Steel Clipped Mullion for Wood Windows & Doors, approved on 05/18/06 and expiring on 05/29/08.

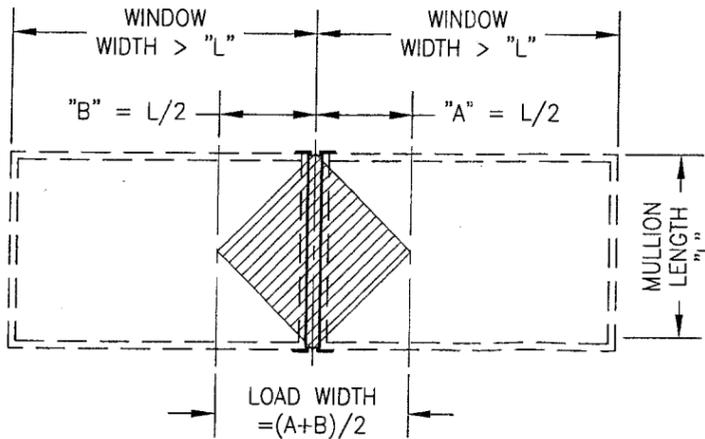

Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0206.13

Expiration Date: June 26, 2013
Approval Date: June 26, 2008



FIXED WINDOW TO FIXED WINDOW TABLE							
LENGTH (IN.)	LOAD WIDTH (IN.) A+B 2	ALLOWABLE PRESSURES (PSF)					
		4X2X3/16 TUBE		4X2X1/4 TUBE		5X2X1/4 TUBE	
		CONN. "A"	CONN. "B", "C" & "D"	CONN. "A"	CONN. "B", "C" & "D"	CONN. "A"	CONN. "B", "C" & "D"
78 OR LESS	74 OR LESS	85.0	85.0	85.0	85.0	85.0	85.0
84	66 OR LESS	85.0	85.0	85.0	85.0	85.0	85.0
	74	84.1	85.0	84.1	85.0	84.1	85.0
90	54 OR LESS	85.0	85.0	85.0	85.0	85.0	85.0
	60	81.3	85.0	81.3	85.0	81.3	85.0
	66	77.8	85.0	77.8	85.0	77.8	85.0
96	74	74.6	85.0	74.6	85.0	74.6	85.0
	42 OR LESS	85.0	85.0	85.0	85.0	85.0	85.0
	48	84.7	85.0	84.7	85.0	84.7	85.0
	54	78.5	85.0	78.5	85.0	78.5	85.0
108	60	73.9	85.0	73.9	85.0	73.9	85.0
	66	70.4	85.0	70.4	85.0	70.4	85.0
	74	67.0	85.0	67.0	85.0	67.0	85.0
	36 OR LESS	85.0	85.0	85.0	85.0	85.0	85.0
	42	80.1	85.0	80.1	85.0	80.1	85.0
120	48	72.6	85.0	72.6	85.0	72.6	85.0
	54	66.9	85.0	66.9	85.0	66.9	85.0
	60	62.5	81.0	62.5	81.0	62.5	81.0
	66	59.1	76.6	59.1	76.6	59.1	76.6
	74	55.7	72.2	55.7	72.2	55.7	72.2

ALL TUBES SHALL BE A46 STEEL



FIXED WINDOW TO FIXED WINDOW TABLE							
LENGTH (IN.)	LOAD WIDTH (IN.) A+B 2	ALLOWABLE PRESSURES (PSF)					
		4X2X3/16 TUBE		4X2X1/4 TUBE		5X2X1/4 TUBE	
		CONN. "A"	CONN. "B", "C" & "D"	CONN. "A"	CONN. "B", "C" & "D"	CONN. "A"	CONN. "B", "C" & "D"
120	30 OR LESS	85.0	85.0	85.0	85.0	85.0	85.0
	36	79.7	85.0	79.7	85.0	79.7	85.0
	42	70.4	85.0	70.4	85.0	70.4	85.0
	48	63.5	82.3	63.5	82.3	63.5	82.3
	54	58.3	73.9	58.3	75.5	58.3	75.5
	60	54.2	66.5	54.2	70.2	54.2	70.2
132	66	51.0	60.5	51.0	66.1	51.0	66.1
	74	47.6	53.9	47.6	61.8	47.6	61.8
	24 OR LESS	85.0	85.0	85.0	85.0	85.0	85.0
	30	83.4	85.0	83.4	85.0	83.4	85.0
	36	71.3	83.3	71.3	85.0	71.3	85.0
	42	62.8	71.4	62.8	81.4	62.8	81.4
	48	56.4	62.5	56.4	73.2	56.4	73.2
	54	51.6	55.5	51.6	66.9	51.6	66.9
144	60	47.8	50.0	47.8	60.6	47.8	62.0
	66	44.8	45.4	44.8	55.0	44.8	58.0
	74	40.5	40.5	41.6	49.1	41.6	54.0
	24 OR LESS	85.0	85.0	85.0	85.0	85.0	85.0
	30	75.6	77.0	75.6	85.0	75.6	85.0
	36	64.1	64.1	64.5	77.7	64.5	83.6
	42	55.0	55.0	56.6	66.6	56.6	73.4
	48	48.1	48.1	50.8	58.3	50.8	65.8
144	54	42.8	42.8	46.3	51.8	46.3	60.0
	60	38.5	38.5	42.8	46.6	42.8	55.4
	66	35.0	35.0	39.9	42.4	39.9	51.8
	74	31.2	31.2	37.0	37.8	37.0	47.9

CONN "A" = CONNECTION METHOD "A". SEE SHEET 5 FOR DETAIL.
 CONN "B" = CONNECTION METHOD "B". SEE SHEET 5 FOR DETAIL.
 CONN "C" = CONNECTION METHOD "C". SEE SHEET 5 FOR DETAIL.
 CONN "D" = CONNECTION METHOD "D". SEE SHEET 5 FOR DETAIL.
 NOTE: TUBE TO TUBE CONNECTION, AS DETAILED ON SHEET 5, IS ACCEPTABLE FOR ALL CONN. "A", "B", "C" & "D" LOADS.

NOTE: INDIVIDUAL UNIT SIZES & SHUTTER REQUIREMENTS ARE LIMITED BY THEIR OWN INDIVIDUAL "NOTICE OF ACCEPTANCE"

FIXED WINDOW TO FIXED WINDOW

LOAD WIDTH = (A + B)/2

NOTE: "FIXED WINDOW" MAY BE A SASH GLAZED FIXED OR A DIRECT GLAZED FIXED WINDOW UNDER SEPERATE APPROVAL.

NOTE: WHEN WINDOW WIDTH IS GREATER THAN THE MULLION LENGTH, "A" AND/OR "B" SHALL BE EQUAL TO 1/2 THE MULLION LENGTH

NOTE: MULLION MAY BE HORIZONTAL OR VERTICAL

GENERAL NOTES (ALL DRAWING SHEETS):

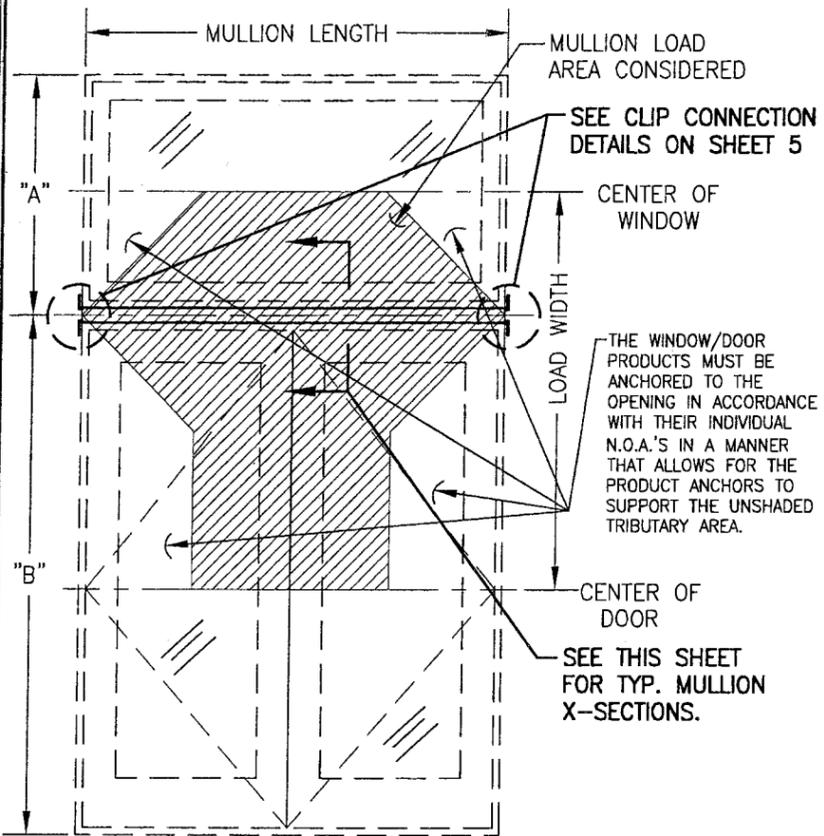
- DOORS & WINDOWS ARE APPROVED UNDER SEPERATE N.O.A. WITH WOOD FILLER MULLION AS AN UN-CLIPPED MULLION. SEE THE PRODUCTS SPECIFIC N.O.A. FOR USE OF THESE MULLIONS WHEN THEY APPLY.
- THESE MULLION SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN ON THESE DRAWINGS.
- BLOCK AND FRAME OPENINGS, INCLUDING BUCKS (IF USED AS SUPPORT), MUST BE DESIGNED & CONSTRUCTED TO WITHSTAND WIND LOADS TRANSFERRED BY THE MULLIONS END REACTIONS & SUPPORTED WINDOWS/DOORS.
- ALL MATERIALS & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
- THESE MULLION SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 & 2007 FLORIDA BUILDING CODES (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
- THIS MULLION PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS-201, TAS-202 & TAS-203 FOR LARGE MISSILE IMPACT, STRUCTURAL & CYCLIC TESTING.

- ALL PRODUCTS TO BE USED WITH THESE MULLIONS MUST BE WOOD FRAMED PRODUCTS SUPPLIED BY LANDFALL GROUP AND MUST HOLD A DADE COUNTY IMPACT OR NON-IMPACT NOTICE OF ACCEPTANCE (N.O.A.) AND/OR FLORIDA STATE APPROVAL.
- ALLOWABLE PRESSURE ON THE MULLED UNIT SHALL BE CONTROLLED BY THE LESSER ALLOWABLE PRESSURE OF THE MULLION OR THE INDIVIDUAL DOOR/WINDOW UNITS.
- FOR WINDOW OR DOOR FRAME TO OPENING ATTACHMENT, SEE THE RESPECTIVE PRODUCT APPROVAL DRAWINGS FOR THE WINDOW/DOOR.
- MULLION LENGTHS ARE RESTRICTED BY THOSE SHOWN IN THE TABLES.
- THE LOADS IN THESE TABLES CONSIDER WORSE CASE OF MULLION STRESS, DEFLECTION AND END REACTION.
- ANY CONDITIONS NOT COVERED IN THIS APPROVAL SHALL BE SUBJECT TO SEPERATE ENGINEERING REVIEW.
- ALL TUBES SHALL BE A46 STEEL. ALL CONNECTION ANGLES & PLATES SHALL BE A36 MIN. 12 GAGE GALVANIZED STEEL.
- ALL EMBEDMENTS SPECIFIED ARE TO BE BEYOND WALL FINISH.

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 08-0206-13
 Expiration Date 6/26/13

By *Warren W. Schaefer*
 Miami Dade Product Control
 Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 02/05/03
DATE: 08/12/05	DATE: 02/26/08
BY: WWS	BY: W.R.M.
NO. REVISION DESCRIPTION	NO. REVISION DESCRIPTION
A1 UPDATE GENERAL NOTES TO 2004 CODE COMPLIANT	B1 UPDATE TO 2007 CODE COMPLIANCE
DRAWING TITLE: LUXBAUM WINDOWS & DOORS STEEL CLIPPED MULLION FOR WOODEN DOORS & WINDOWS	
MANUFACTURER: LUXBAU, LLC	
2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409	
561-684-1500	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4802 FAX: 561-775-4903	CERTIFICATION: FEB 28 2008
DRAWING NO. 1201	REV. B
SHEET NO. 1 OF 5	



DOUBLE DOOR OR CASEMENT WITH TRANSOM
LOAD WIDTH = (A + B)/2

NOTE: "TRANSOM" MAY BE A SASH GLAZED FIXED WINDOW, DIRECT GLAZED FIXED WINDOW OR A FIXED DOOR PANEL UNDER SEPERATE APPROVAL.

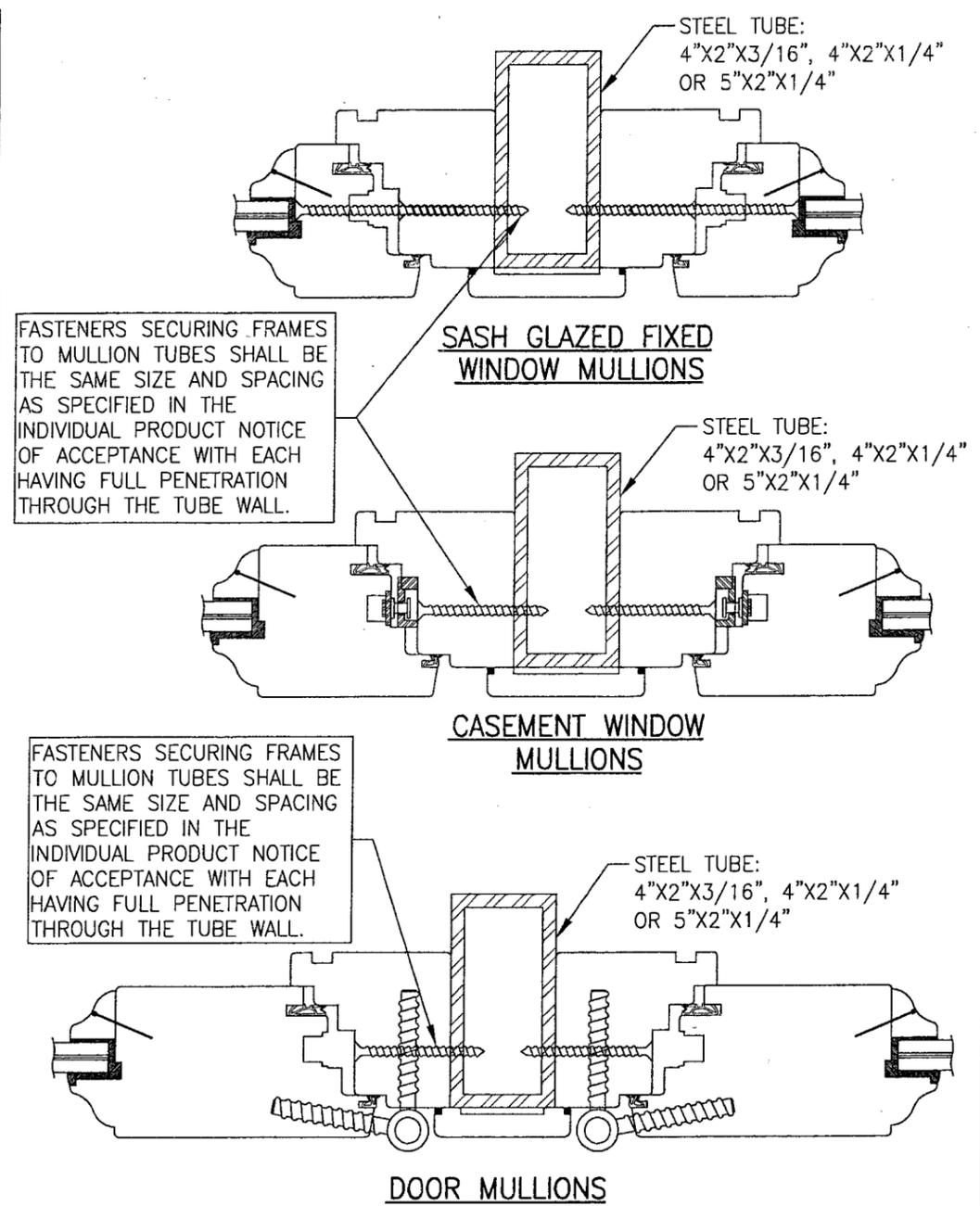
DOUBLE DOOR OR CASEMENT WITH TRANSOM

LENGTH (IN.)	LOAD WIDTH (IN.) $\frac{A+B}{2}$	ALLOWABLE PRESSURES (PSF)	
		CONN. "A"	CONN. "B", "C" & "D"
54 OR LESS	90 OR LESS	85.0	85.0
	96	80.6	85.0
60	78 OR LESS	85.0	85.0
	84	82.9	85.0
	90	77.4	85.0
66	96	72.6	85.0
	72 OR LESS	85.0	85.0
	78	81.2	85.0
	84	75.4	85.0
72	90	70.4	85.0
	96	66.0	85.0
	66 OR LESS	85.0	85.0
	72	80.6	85.0
	78	74.4	85.0
78	84	69.1	85.0
	90	64.5	83.6
	96	60.5	78.4
	60 OR LESS	85.0	85.0
	66	81.2	85.0
	72	74.4	85.0
84	78	68.7	85.0
	84	63.8	82.7
	90	59.5	77.2
	96	55.8	72.4
	54 OR LESS	85.0	85.0
	60	82.9	85.0
	66	75.4	85.0
87	72	69.1	85.0
	78	63.8	82.7
	84	59.2	76.8
	90	55.3	71.7
	96	51.8	67.2
	54 OR LESS	85.0	85.0
87	60	80.1	85.0
	66	72.8	85.0
	72	66.7	85.0
	78	61.6	79.8
	84	57.2	74.1
87	90	53.4	69.2
	96	50.0	64.9

ALL TUBES SHALL BE A46 STEEL

CONN "A" = CONNECTION METHOD "A". SEE SHEET 5 FOR DETAIL.
 CONN "B" = CONNECTION METHOD "B". SEE SHEET 5 FOR DETAIL.
 CONN "C" = CONNECTION METHOD "C". SEE SHEET 5 FOR DETAIL.
 CONN "D" = CONNECTION METHOD "D". SEE SHEET 5 FOR DETAIL.
 NOTE: TUBE TO TUBE CONNECTION, AS DETAILED ON SHEET 5, IS ACCEPTABLE FOR ALL CONN. "A", "B", "C" & "D" LOADS.

NOTE: INDIVIDUAL UNIT SIZES & SHUTTER REQUIREMENTS ARE LIMITED BY THEIR OWN INDIVIDUAL "NOTICE OF ACCEPTANCE"

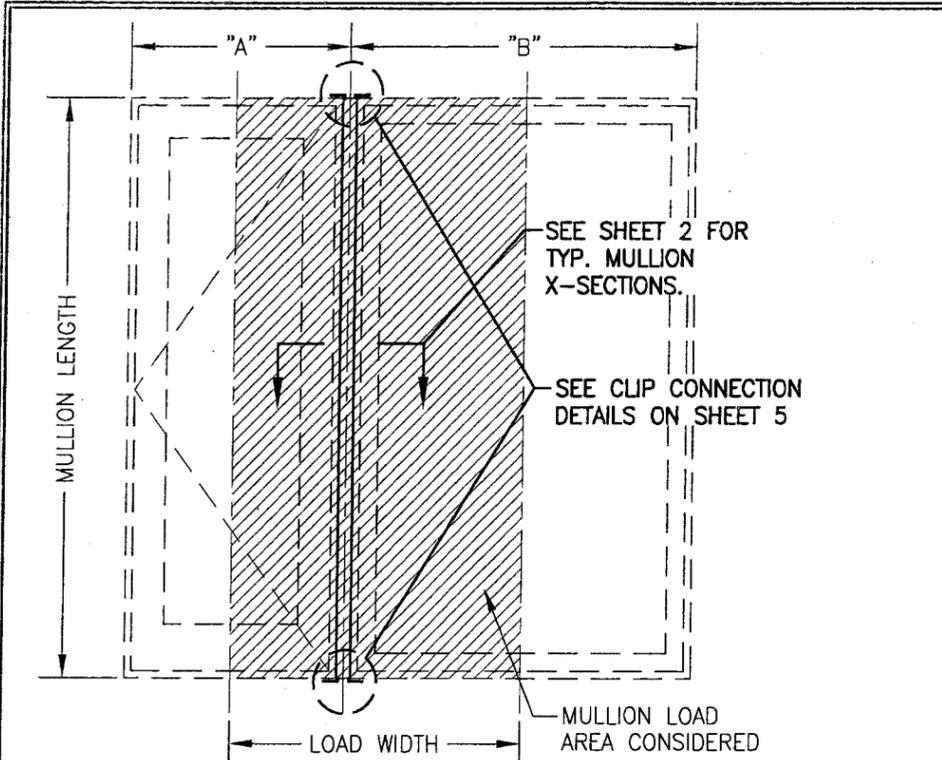


TYPICAL MULLION CONDITIONS

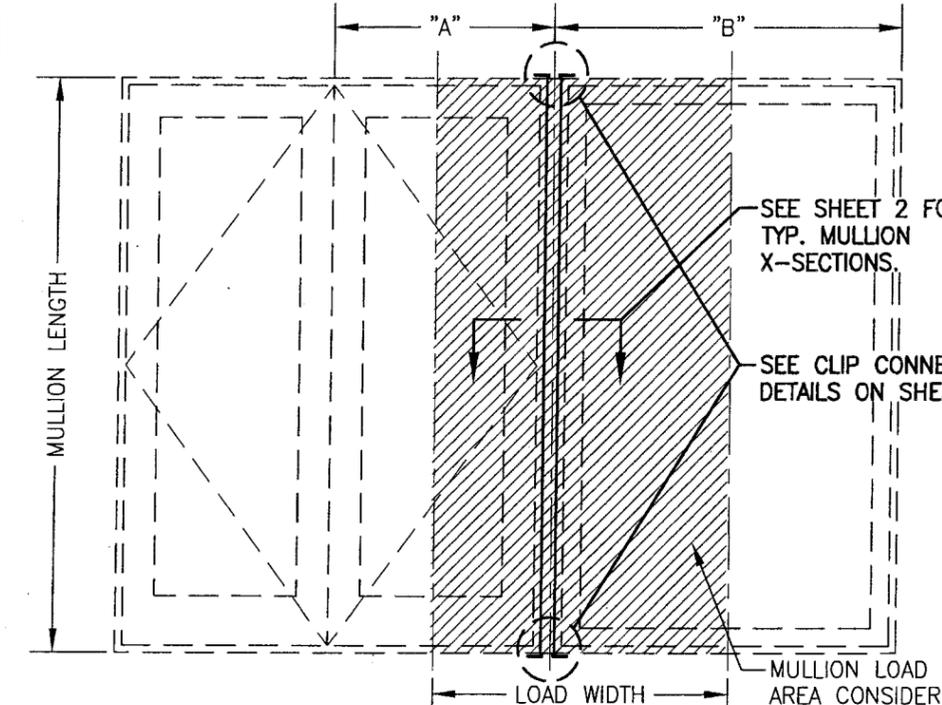
NOTE: PRODUCTS CAN BE INTERMIXED & ARE NOT LIMITED TO THOSE SHOWN. PRODUCTS USED WITH THE MULLIONS MUST BE WOOD WINDOW/DOOR PRODUCTS SUPPLIED BY THE LANDFALL GROUP & MUST HOLD A MIAMI-DADE COUNTY "NOTICE OF ACCEPTANCE" OR FLORIDA STATE APPROVAL.

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 08-0206-13
 Expiration Date 6/26/13
 By *Manuel Jara*
 Miami Dade Product Control
 Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 02/05/03
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE: LUXBAUM WINDOWS & DOORS	
STEEL CLIPPED MULLION FOR WOODEN DOORS & WINDOWS	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	LUXBAU, LLC
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500
CERTIFICATION	
FEB 26 2008	
WAPREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1201	REV. B
SHEET NO. 2	OF 5



**SINGLE DOOR OR OPERABLE WINDOW WITH SIDELIGHT,
DOOR TO DOOR OR OPERABLE WINDOW TO OPERABLE WINDOW**
LOAD WIDTH = (A + B)/2



**DOUBLE DOOR OR CASEMENT W/SIDELIGHT OR
DOUBLE DOOR/CASEMENT TO DOOR/CASEMENT**
LOAD WIDTH = (A + B)/2

NOTE: "SIDELIGHT" MAY BE A SASH GLAZED FIXED WINDOW, A DIRECT GLAZED FIXED WINDOW, OR A FIXED DOOR PANEL UNDER SEPERATE APPROVAL.

NOTE: IF A DOUBLE UNIT IS MULLED TO A DOUBLE UNIT, DIMENSION "B" WILL BE THE WIDTH OF THE DOOR PANEL AS WITH DIMENSION "A".

DOOR OR CASEMENT WITH SIDELIGHT			
LENGTH (IN.)	LOAD WIDTH (IN.) A+B 2	ALLOWABLE PRESSURES (PSF)	
		4X2X3/16 TUBE	
		CONN. "A"	CONN. "B", "C" & "D"
54 OR LESS	60 OR LESS	85.0	85.0
60	54 OR LESS	85.0	85.0
	60	81.3	85.0
66	48 OR LESS	85.0	85.0
	54	82.1	85.0
	60	73.9	85.0
72	42 OR LESS	85.0	85.0
	48	84.7	85.0
	54	75.3	85.0
78	60	67.7	85.0
	42 OR LESS	85.0	85.0
	48	78.1	85.0
84	54	69.5	85.0
	60	62.5	81.0
	36 OR LESS	85.0	85.0
90	42	82.9	85.0
	48	72.6	85.0
	54	64.5	83.6
	60	58.1	75.3
96	36 OR LESS	85.0	85.0
	42	77.4	85.0
	48	67.7	85.0
	54	60.2	78.0
102	60	54.2	70.2
	36 OR LESS	85.0	85.0
	42	79.3	85.0
	48	66.1	85.0
108	54	56.6	73.4
	60	49.6	64.2
	36 OR LESS	85.0	85.0
	42	75.3	85.0
114	48	64.5	83.6
	54	56.4	73.2
	60	50.2	65.0
	36 OR LESS	85.0	85.0
120	42	45.2	58.5
	48	39.6	51.4
	36 OR LESS	85.0	85.0
	42	79.3	85.0
126	48	66.1	85.0
	54	56.6	73.4
	60	49.6	64.2
	36 OR LESS	85.0	85.0
132	42	44.0	57.1
	48	39.6	51.4
	36 OR LESS	85.0	85.0
	42	79.3	85.0

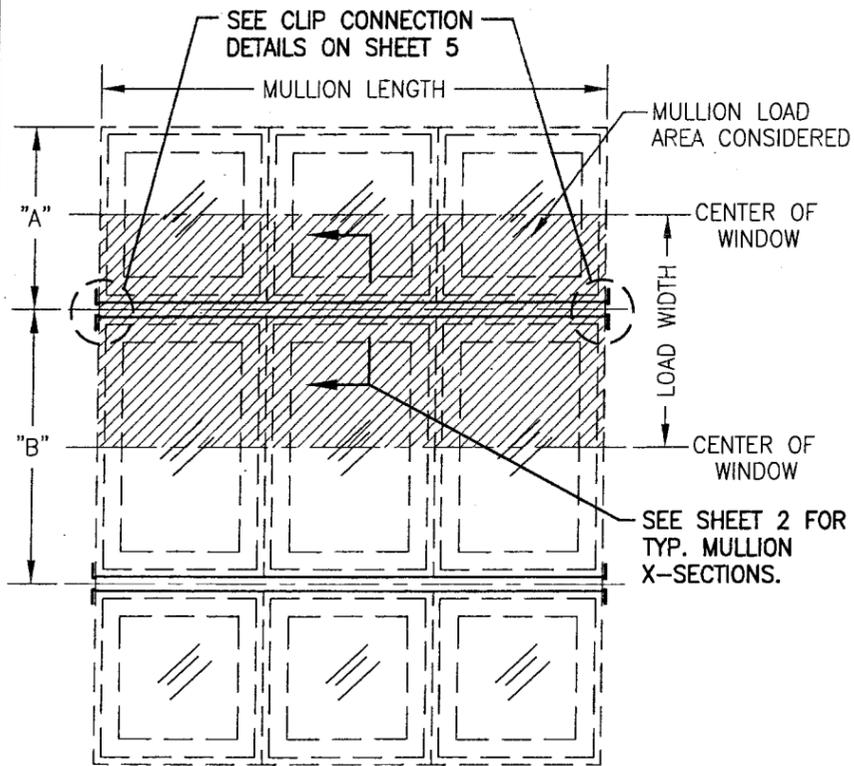
DOOR OR CASEMENT WITH SIDELIGHT			
LENGTH (IN.)	LOAD WIDTH (IN.) A+B 2	ALLOWABLE PRESSURES (PSF)	
		4X2X3/16 TUBE	
		CONN. "A"	CONN. "B", "C" & "D"
96	30 OR LESS	85.0	85.0
	36	84.7	85.0
	42	72.6	85.0
	48	63.5	82.3
102	54	56.4	73.2
	60	50.8	65.8
	30 OR LESS	85.0	85.0
	36	79.7	85.0
108	42	68.3	85.0
	48	59.8	77.5
	54	53.1	68.9
	60	47.8	62.0
114	30 OR LESS	85.0	85.0
	36	75.3	85.0
	42	64.5	83.6
	48	56.4	73.2
120	54	50.2	65.0
	60	45.2	58.5
	36 OR LESS	85.0	85.0
	30	79.3	85.0
126	42	66.1	85.0
	48	56.6	73.4
	54	49.6	64.2
	60	44.0	57.1
132	36 OR LESS	85.0	85.0
	42	79.3	85.0
	48	66.1	85.0
	54	56.6	73.4
138	60	49.6	64.2
	36 OR LESS	85.0	85.0
	42	79.3	85.0
	48	66.1	85.0

ALL TUBES SHALL BE A46 STEEL
CONN "A" = CONNECTION METHOD "A". SEE SHEET 5 FOR DETAIL.
CONN "B" = CONNECTION METHOD "B". SEE SHEET 5 FOR DETAIL.
CONN "C" = CONNECTION METHOD "C". SEE SHEET 5 FOR DETAIL.
CONN "D" = CONNECTION METHOD "D". SEE SHEET 5 FOR DETAIL.
NOTE: TUBE TO TUBE CONNECTION, AS DETAILED ON SHEET 5, IS ACCEPTABLE FOR ALL CONN. "A", "B", "C" & "D" LOADS.

NOTE: INDIVIDUAL UNIT SIZES & SHUTTER REQUIREMENTS ARE LIMITED BY THEIR OWN INDIVIDUAL "NOTICE OF ACCEPTANCE"

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 08-0206-13
Expiration Date 6/26/13
By *Manuel Perez*
Miami Dade Product Control
Division

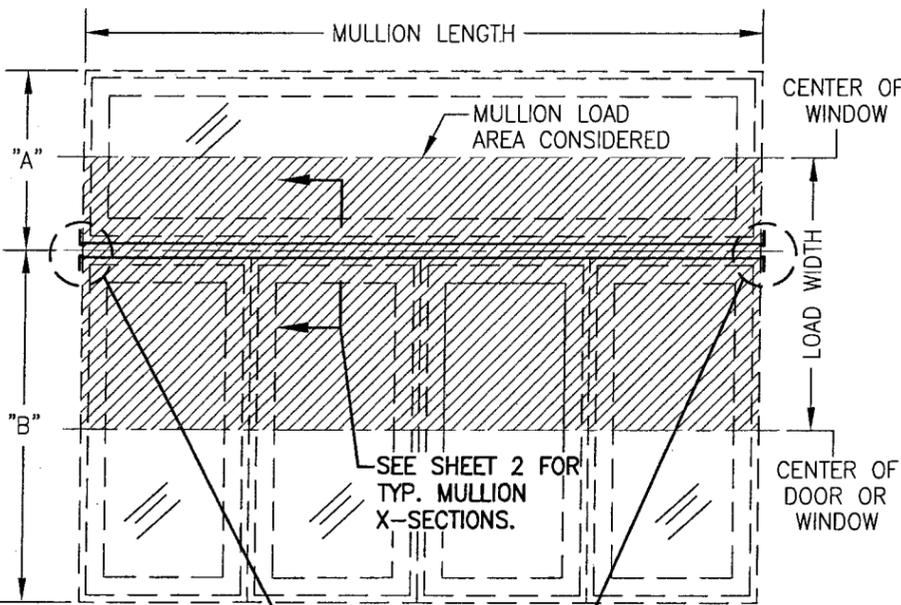
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 02/05/03
NO.	DATE
BY	DESCRIPTION
DRAWING TITLE LUXBAUM WINDOWS & DOORS STEEL CLIPPED MULLION FOR WOODEN DOORS & WINDOWS	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
MANUFACTURER LUXBAU, LLC 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500	
CERTIFICATION FEB 26 2008	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1201	REV. B
SHEET NO. 3 OF 5	



MULTIPLE WINDOWS (HORIZONTAL MULLION)

LOAD WIDTH = (A + B)/2

MULLIONS MAY BE HORIZONTAL OR VERTICAL



MULTIPLE WINDOWS/DOORS WITH TRANSOM

LOAD WIDTH = (A + B)/2

TRANSOM MAY BE SINGLE OR MULTIPLE WINDOWS (SINGLE DOOR/WINDOW WITH TRANSOM ALSO APPLIES)

CONN "A" = CONNECTION METHOD "A". SEE SHEET 5 FOR DETAIL.
 CONN "B" = CONNECTION METHOD "B". SEE SHEET 5 FOR DETAIL.
 CONN "C" = CONNECTION METHOD "C". SEE SHEET 5 FOR DETAIL.
 CONN "D" = CONNECTION METHOD "D". SEE SHEET 5 FOR DETAIL.
 NOTE: TUBE TO TUBE CONNECTION, AS DETAILED ON SHEET 5, IS ACCEPTABLE FOR ALL CONN. "A", "B", "C" & "D" LOADS.

MULTIPLE WINDOWS/DOORS			
LENGTH (IN.)	LOAD WIDTH (IN.) A+B 2	ALLOWABLE PRESSURES (PSF) 4X2X3/16 TUBE	
		CONN. "A"	CONN. "B", "C" & "D"
48 OR LESS	66 OR LESS	85.0	85.0
	72	84.7	85.0
54	60 OR LESS	85.0	85.0
	66	82.1	85.0
	72	75.3	85.0
	54 OR LESS	85.0	85.0
60	60	81.3	85.0
	66	73.9	85.0
	72	67.7	85.0
	78	62.5	81.0
	84	58.1	75.3
	48 OR LESS	85.0	85.0
66	54	82.1	85.0
	60	73.9	85.0
	66	67.2	85.0
	72	61.6	79.8
	78	56.8	73.7
	84	52.8	68.4
72	42 OR LESS	85.0	85.0
	48	84.7	85.0
	54	75.3	85.0
	60	67.7	85.0
	66	61.6	79.8
	72	56.4	73.2
	78	52.1	67.5
	84	48.4	62.7
	90	45.2	58.5
	96	42.3	54.9
78	42 OR LESS	85.0	85.0
	48	78.1	85.0
	54	69.5	85.0
	60	62.5	81.0
	66	56.8	73.7
	72	52.1	67.5
	78	48.1	62.3
	84	44.7	57.9
	90	41.7	54.0
	96	39.1	50.7
84	36 OR LESS	85.0	85.0
	42	82.9	85.0
	48	72.6	85.0
	54	64.5	83.6
	60	58.1	75.3
	66	52.8	68.4
	72	48.4	62.7
	78	44.7	57.9
	84	41.5	53.8
	90	38.7	50.2
	96	36.3	47.0

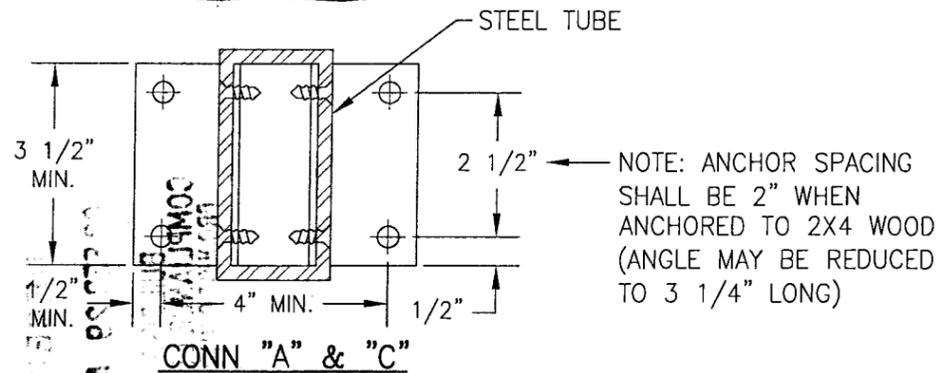
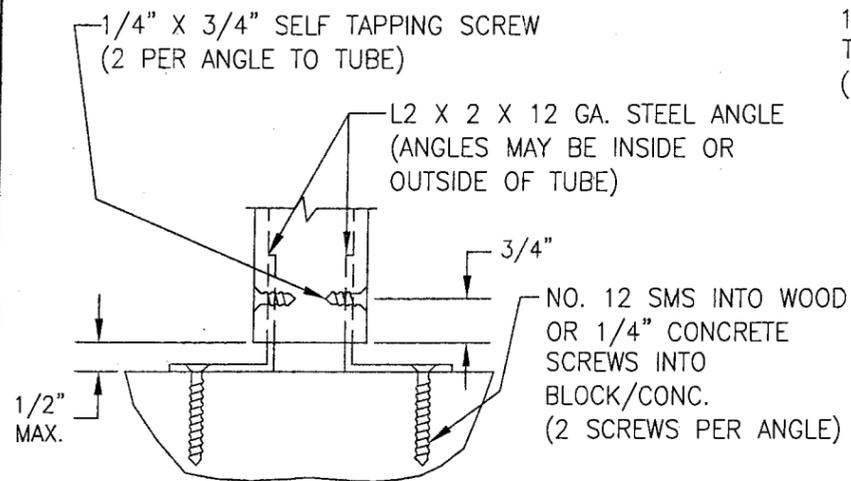
MULTIPLE WINDOWS/DOORS			
LENGTH (IN.)	LOAD WIDTH (IN.) A+B 2	ALLOWABLE PRESSURES (PSF) 4X2X3/16 TUBE	
		CONN. "A"	CONN. "B", "C" & "D"
36 OR LESS	36	85.0	85.0
	42	77.4	85.0
48	48	67.7	85.0
	54	60.2	78.0
60	60	54.2	70.2
	66	49.3	63.9
72	72	45.2	58.5
	78	41.7	54.0
84	84	38.7	50.2
	90	36.1	46.8
96	96	33.9	43.9
	30 OR LESS	85.0	85.0
96	36	84.7	85.0
	42	72.6	85.0
	48	63.5	82.3
	54	56.4	73.2
	60	50.8	65.8
	66	46.2	59.9
	72	42.3	54.9
	78	39.1	50.7
	84	36.3	47.0
	90	33.9	43.9
	96	31.7	41.2
	30 OR LESS	85.0	85.0
108	36	75.3	85.0
	42	64.5	83.6
	48	56.4	73.2
	54	50.2	65.0
	60	45.2	58.5
	66	41.0	53.2
	72	37.6	48.8
	78	34.7	45.0
	84	32.3	41.8
	90	30.1	39.0
	96	-	36.6
	24 OR LESS	85.0	85.0
120	30	81.3	85.0
	36	67.7	85.0
	42	58.1	75.3
	48	50.8	65.8
	54	45.2	58.5
	60	40.6	52.7
	66	36.9	47.9
	72	33.9	43.9
	84	-	37.6
	96	-	32.9
132	30 OR LESS	73.9	85.0
	36	61.6	79.8
	42	52.8	68.4
	48	46.2	59.9
	54	41.0	53.2
	60	36.9	47.9
	66	33.6	43.5
	72	30.8	39.9
	84	-	34.2
	96	-	29.9

MULTIPLE WINDOWS/DOORS			
LENGTH (IN.)	LOAD WIDTH (IN.) A+B 2	ALLOWABLE PRESSURES (PSF) 4X2X3/16 TUBE	
		CONN. "A"	CONN. "B", "C" & "D"
30 OR LESS	30	67.7	77.0
	36	56.4	64.1
144	42	48.4	55.0
	48	42.3	48.1
	54	37.6	42.8
	60	33.9	38.5
	72	-	32.1
	30 OR LESS	60.5	60.5
156	36	50.5	50.5
	42	43.2	43.2
	48	37.8	37.8
	54	33.6	33.6
	60	30.3	30.3
4X2X1/4 TUBE			
144	30 OR LESS	67.7	85.0
	36	56.4	73.2
	42	48.4	62.7
	48	42.3	54.9
	54	37.6	48.8
	60	33.9	43.9
	72	-	36.6
	84	-	31.4
156	30 OR LESS	62.5	73.4
	36	52.1	61.1
	42	44.7	52.4
	48	39.1	45.9
	54	34.7	40.8
	60	31.3	36.7
	66	-	33.4
	72	-	30.6
5X2X1/4 TUBE			
144	30 OR LESS	67.7	85.0
	36	56.4	73.2
	42	48.4	62.7
	48	42.3	54.9
	54	37.6	48.8
	60	33.9	43.9
	72	-	36.6
	84	-	31.4
156	30 OR LESS	62.5	81.0
	36	52.1	67.5
	42	44.7	57.9
	48	39.1	50.7
	54	34.7	45.0
	60	31.3	40.5
	66	-	36.8
	72	-	33.8
	78	-	31.2

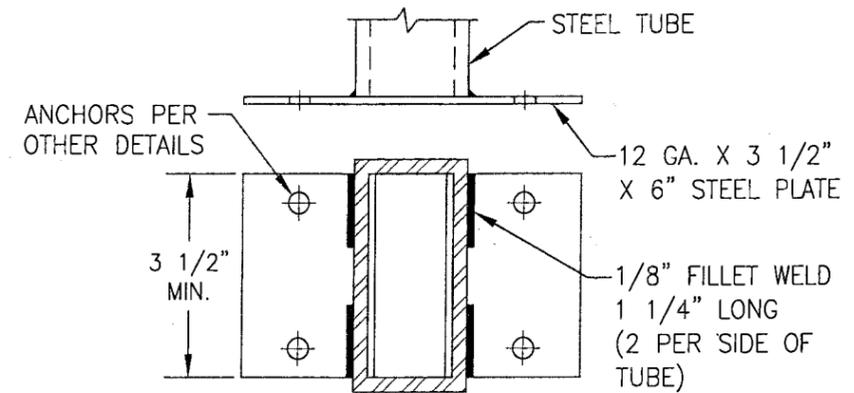
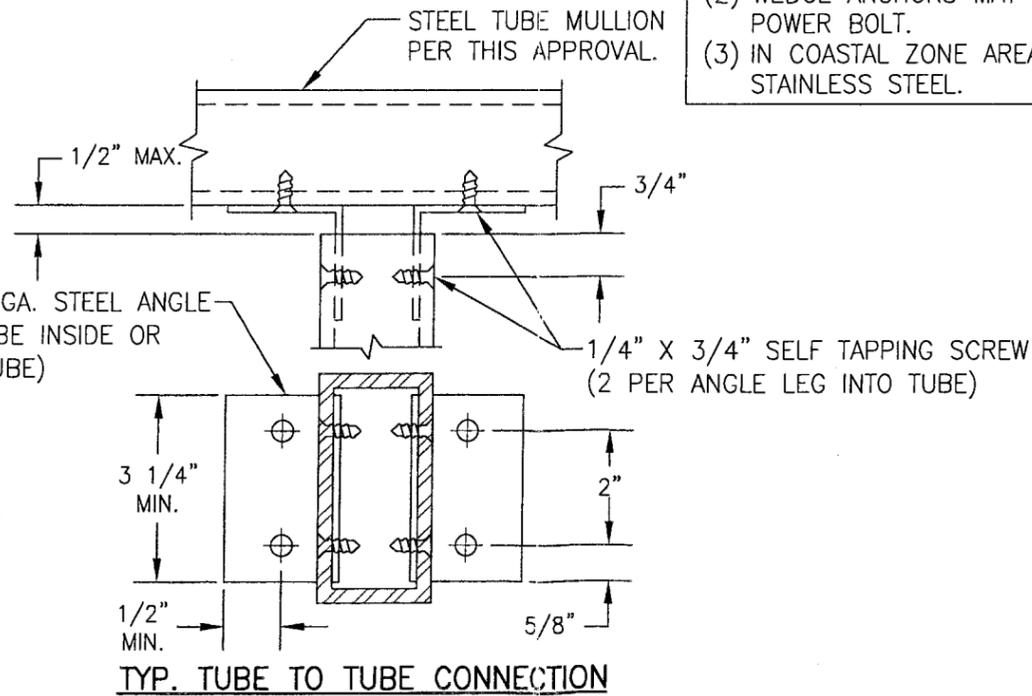
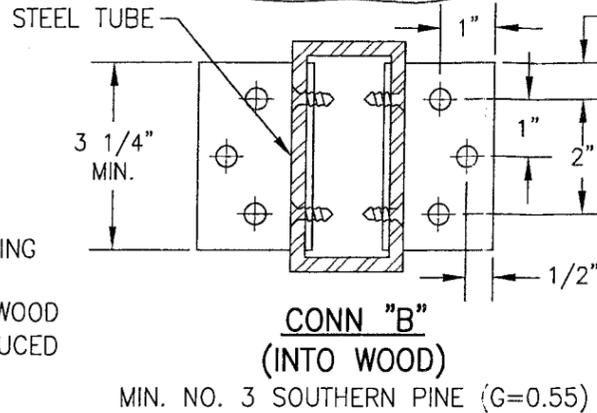
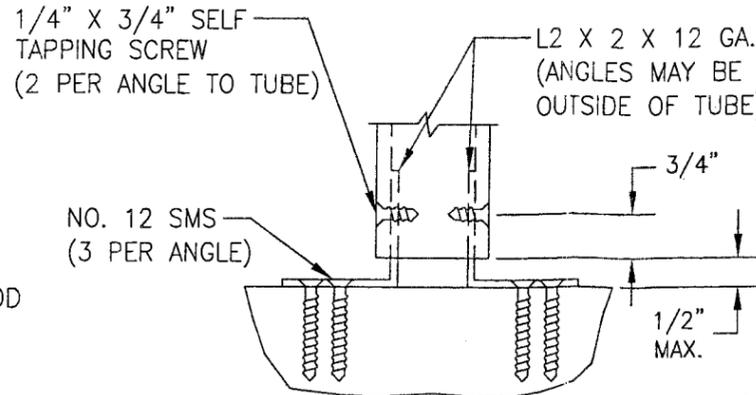
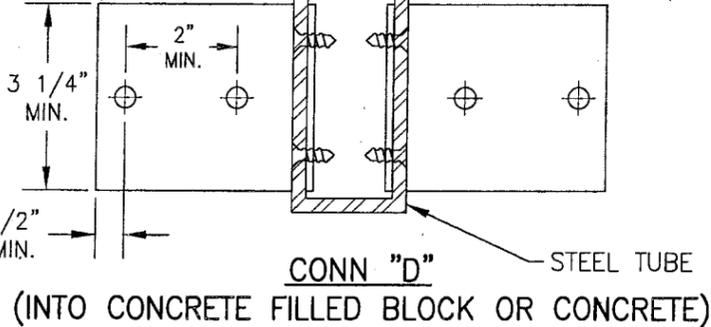
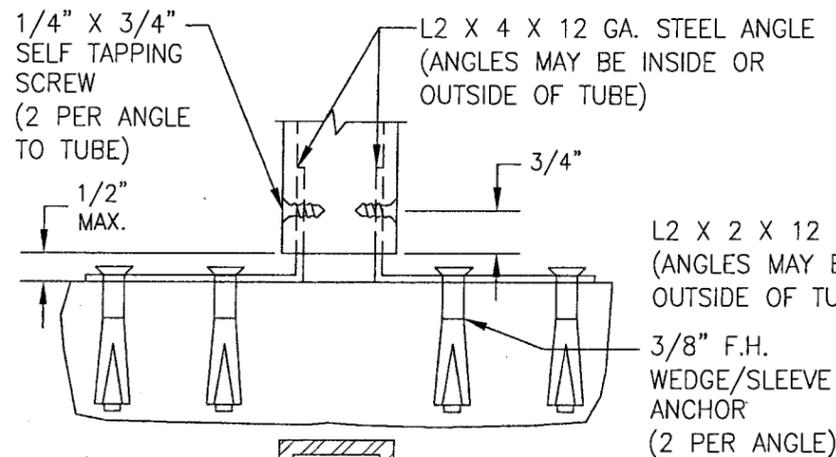
NOTE: LOAD VALUES FOR 4X2X1/4 & 5X2X1/4 MULLIONS LESS THAN 144" IN LENGTH ARE THE SAME AS SPECIFIED FOR THE 4X2X3/16 MULLION. (SEE 4X2X3/16 TUBE LOAD TABLE)

ALL TUBES SHALL BE A46 STEEL
 PRODUCT RENEWED as complying with the Florida Building Code
 Acceptance No 08-0206-13
 Expiration Date 6/26/13
 By *Manuel Perez*
 Miami/Dade Product Control Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 02/05/03
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE: LUXBAUM WINDOWS & DOORS	
STEEL CLIPPED MULLION FOR WOODEN DOORS & WINDOWS	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	LUXBAU, LLC
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500
CERTIFICATION	
FEB 26 2000	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1201	REV. B
SHEET NO. 4	OF 5



(INTO BLOCK, CONCRETE OR WOOD)
 "A" = INTO WOOD OR BLOCK
 "C" = INTO MIN. 2500 PSI CONCRETE
 (WOOD = MIN. NO. 3 SOUTHERN PINE (G=0.55))



OPTIONAL END PLATE CONNECTION
(APPLICABLE TO ALL CONNECTION TYPES ON THIS SHEET)

ANCHOR REQUIREMENTS			
(3) ANCHOR	SUBSTRATE	MIN. EMBED	MIN. EDGE DIST.
NO. 12 SMS	WOOD	1 1/2"	3/4"
(1) 1/4" CONCRETE SCREW	BLOCK/CONCRETE	1 1/2"	2 1/4"
(2) 3/8" WEDGE/SLEEVE ANCHOR	CONCRETE FILLED BLOCK OR CONCRETE	2"	2 1/2"

(1) CONCRETE SCREWS MAY BE ELCO TAPCONS, POWERS RAW TAPPERS OR HILTI KWIK-CON II'S.
 (2) WEDGE ANCHORS MAY BE RAMSET RED HEAD DYNABOLTS OR POWERS RAWL POWER BOLT.
 (3) IN COASTAL ZONE AREAS, ALL MULLION ANCHORS TO SUBSTRATE MUST BE STAINLESS STEEL.

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 08-0206-13
 Expiration Date 6/26/13

By *Warren W. Schaefer*
 Miami Dade Product Control
 Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
DATE: 08/12/05	DATE: 02/05/03
NO. 1	NO. 1
BY: WWS	BY: WWS
REVISION DESCRIPTION	REVISION DESCRIPTION
A2 ADDED ANCHORS TO CONN "D"	A2 ADDED ANCHORS TO CONN "D"
REVISION DATE	REVISION DATE
CONGR. SCREW & OMITTED RED HEAD TAPCONS	CONGR. SCREW & OMITTED RED HEAD TAPCONS
DRAWING TITLE: LUXBAUM WINDOWS & DOORS STEEL CLIPPED MULLION FOR WOODEN DOORS & WINDOWS	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
MANUFACTURER: LUXBAU, LLC 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500	
CERTIFICATION FEB 2 2008	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1201	REV. B
SHEET NO. 5	OF 5