



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)

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: Luxbaum Windows & Doors Steel Clipped Mullion for Wood Windows & Doors

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 A1 dated 08/12/05, 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 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 and supersedes** NOA# **03-0326.04** consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

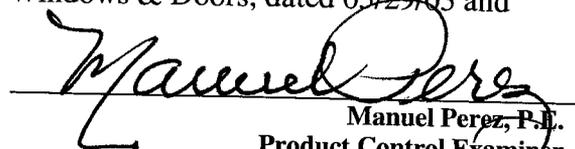
The submitted documentation was reviewed by **Manuel Perez, P.E.**



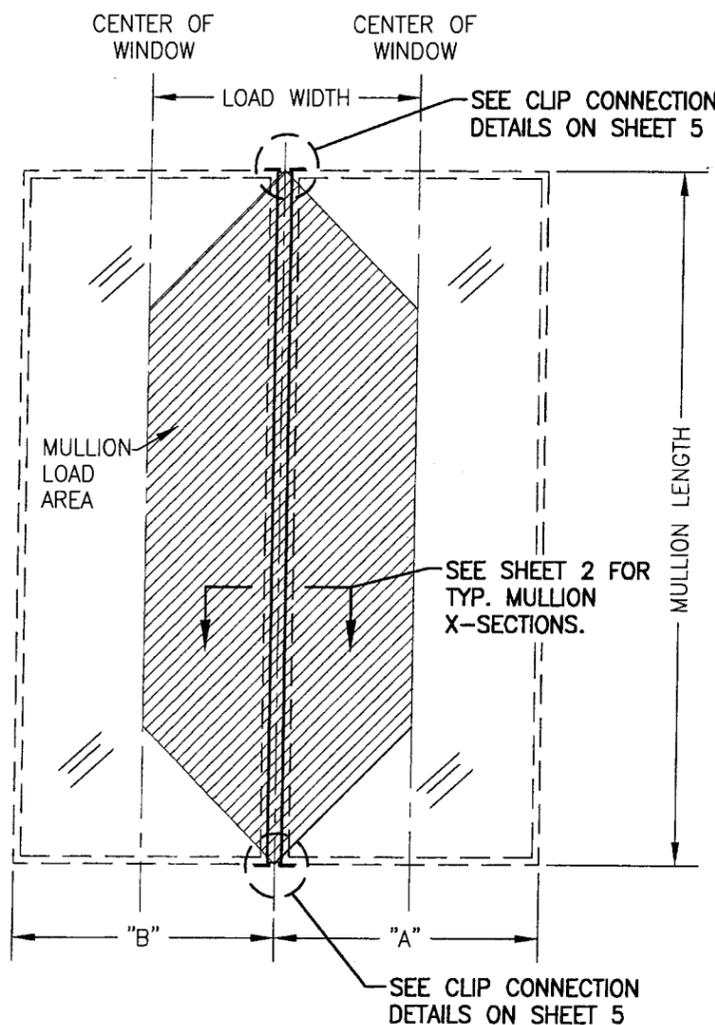
NOA No 05-1018.07
Expiration Date: May 29, 2008
Approval Date: May 18, 2006
Page 1

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 A1 dated 08/12/05, 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 203-94
along 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, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 08/11/05, signed and sealed by Warren 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 2/19/02, signed and sealed by Warren Schaefer, P.E.
"Submitted under NOA# 03-0326.04"
 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"
- G. OTHER**
1. Notice of Acceptance No. **03-0326.04**, issued to Luxbau, LLC, for Luxbaum Windows & Doors Steel Clipped Mullion for Wood Windows & Doors, dated 05/29/03 and expiring on 05/29/08.

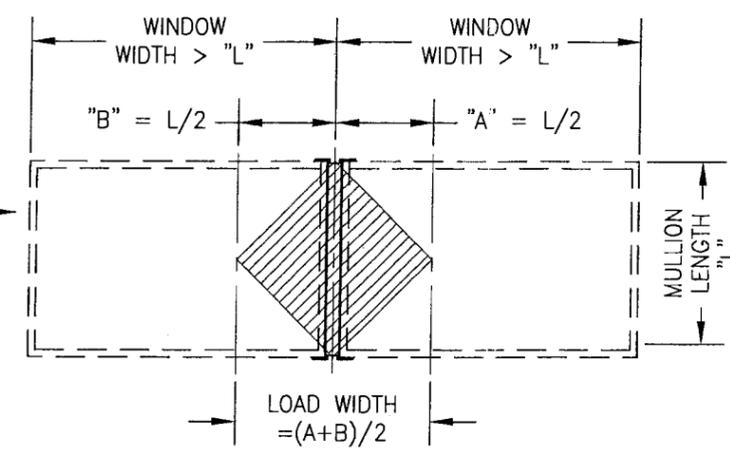


Manuel Perez, P.E.
Product Control Examiner
NOA No 05-1018.07
Expiration Date: May 29, 2008
Approval Date: May 18, 2006



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
	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



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
	66	51.0	60.5	51.0	66.1	51.0	66.1
132	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
	60	47.8	50.0	47.8	60.6	47.8	62.0
144	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
	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

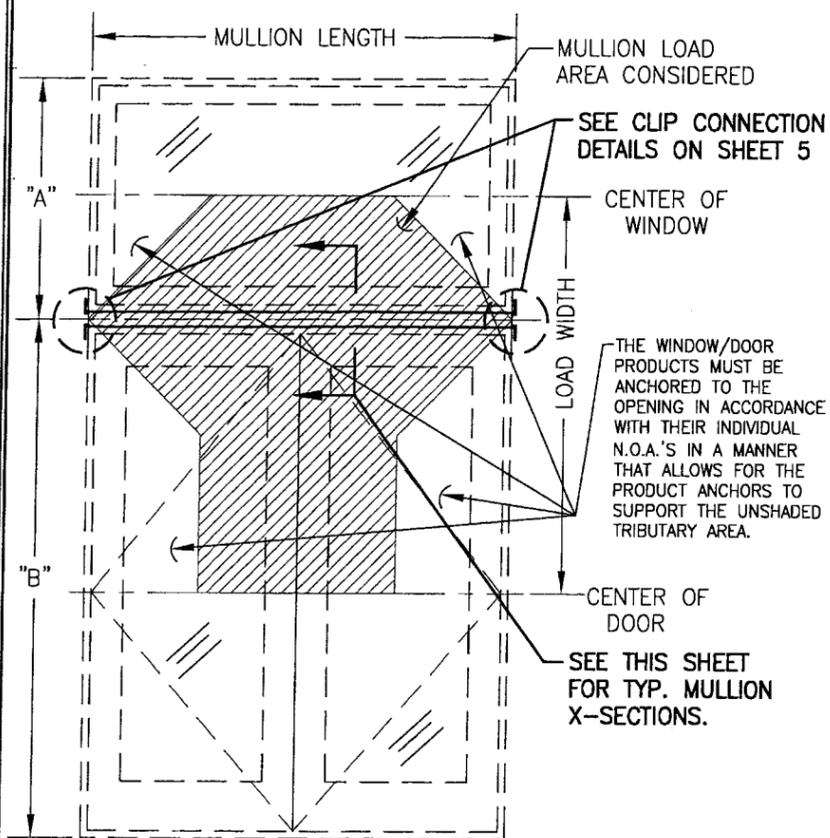
NOTE: MULLION MAY BE HORIZONTAL OR VERTICAL

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 FLORIDA BUILDING CODE (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 REVISED
 as complying with the Florida Building Code
 Acceptance No **05-1018-07**
 Expiration Date **May 29, 2008**
 By *Manuel Jerez*
 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	
BY: WWS	
REVISION DESCRIPTION	
NO. 1	UPDATE GENERAL NOTES TO 2004 CODE COMPLIANT
DRAWING TITLE: LUXBAUM WINDOWS & DOORS	
MANUFACTURER: LUXBAU, LLC	
ADDRESS: 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409	
PHONE: 561-684-1500	
CONSULTANTS:	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410	
PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION:	
DATE: AUG 12 2005	
DRAWING NO. 1201	REV. A
SHEET NO. 1	OF 5



DOUBLE DOOR OR CASEMENT WITH TRANSOM

LOAD WIDTH = (A + B)/2

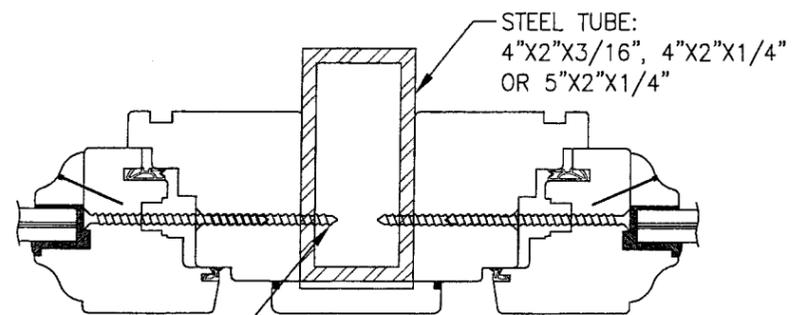
NOTE: "TRANSOM" MAY BE A SASH GLAZED FIXED WINDOW, DIRECT GLAZED FIXED WINDOW OR A FIXED DOOR PANEL UNDER SEPERATE APPROVAL.

DOUBLE DOOR OR CASEMENT WITH TRANSOM				
LENGTH (IN.)	LOAD WIDTH (IN.) A+B 2	ALLOWABLE PRESSURES (PSF)		
		4X2X3/16 TUBE		
		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	
	96	72.6	85.0	
66	72 OR LESS	85.0	85.0	
	78	81.2	85.0	
	84	75.4	85.0	
	90	70.4	85.0	
	96	66.0	85.0	
72	66 OR LESS	85.0	85.0	
	72	80.6	85.0	
	78	74.4	85.0	
	84	69.1	85.0	
	90	64.5	83.6	
78	96	60.5	78.4	
	60 OR LESS	85.0	85.0	
	66	81.2	85.0	
	72	74.4	85.0	
	78	68.7	85.0	
84	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	
90	53.4	69.2		
96	50.0	64.9		

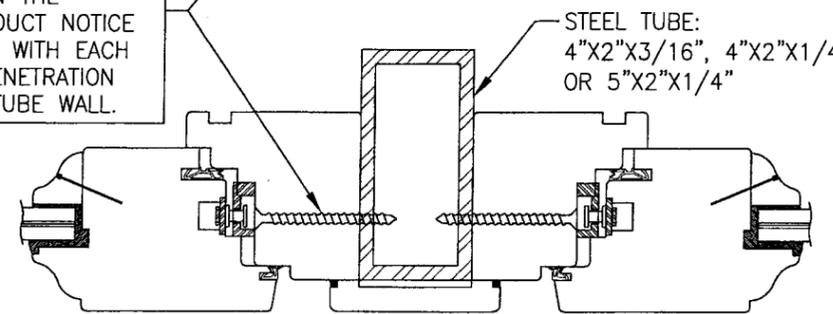
ALL TUBES SHALL BE A46 STEEL

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.

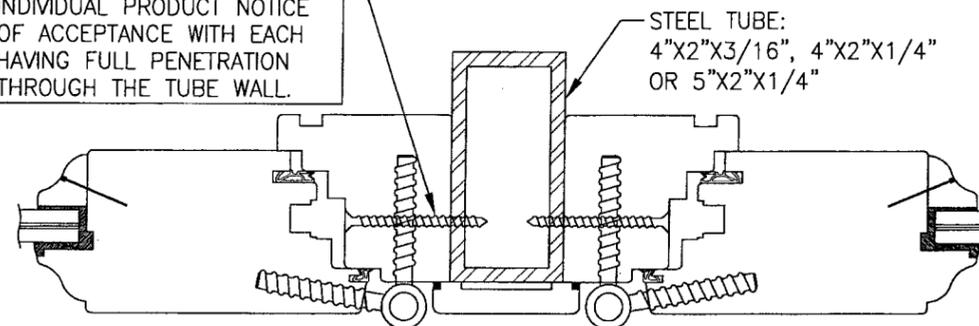
NOTE: INDIVIDUAL UNIT SIZES & SHUTTER REQUIREMENTS ARE LIMITED BY THEIR OWN INDIVIDUAL "NOTICE OF ACCEPTANCE"



SASH GLAZED FIXED WINDOW MULLIONS



CASEMENT WINDOW MULLIONS



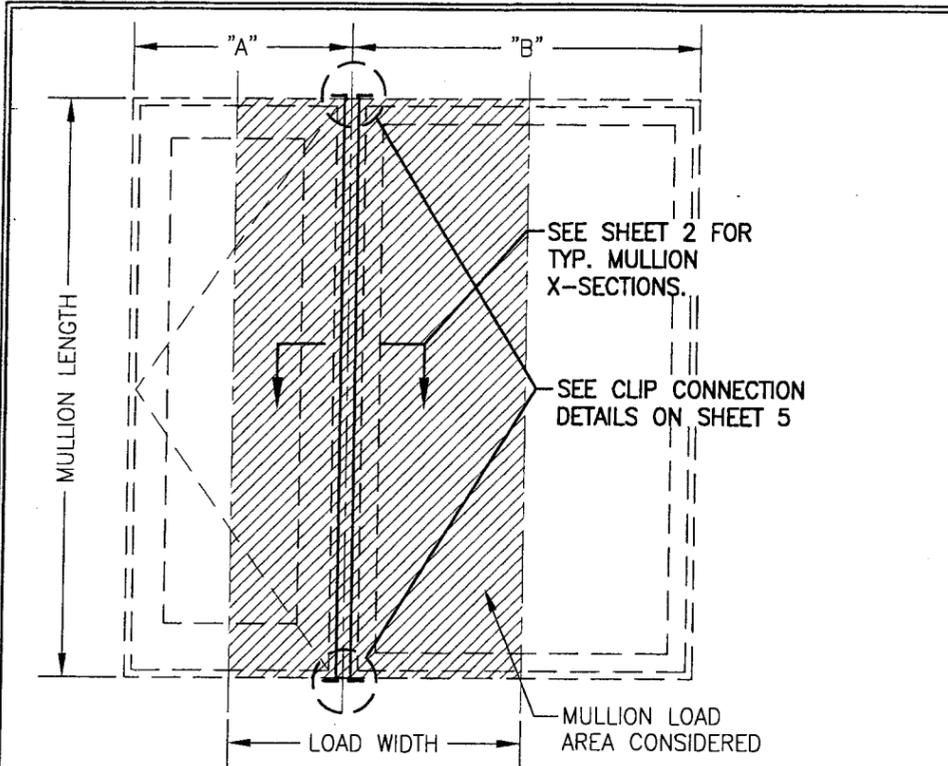
DOOR MULLIONS

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 REVISED
 as complying with the Florida Building Code
 Acceptance No. 05-1018.07
 Expiration Date MAY 29, 2008
 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
NO.	REVISION DESCRIPTION
BY	DATE
DRAWING TITLE: LUXBAUM WINDOWS & DOORS STEEL CLIPPED MULLION FOR WOODEN DOORS & WINDOWS	
CONSULTANTS	MANUFACTURER
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	LUXBAU, LLC 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500
CERTIFICATION	
AUG 12 2005	
DRAWING NO.	REV.
1201	A
SHEET NO.	
2 OF 5	



SEE SHEET 2 FOR TYP. MULLION X-SECTIONS.
SEE CLIP CONNECTION DETAILS ON SHEET 5

MULLION LENGTH

LOAD WIDTH

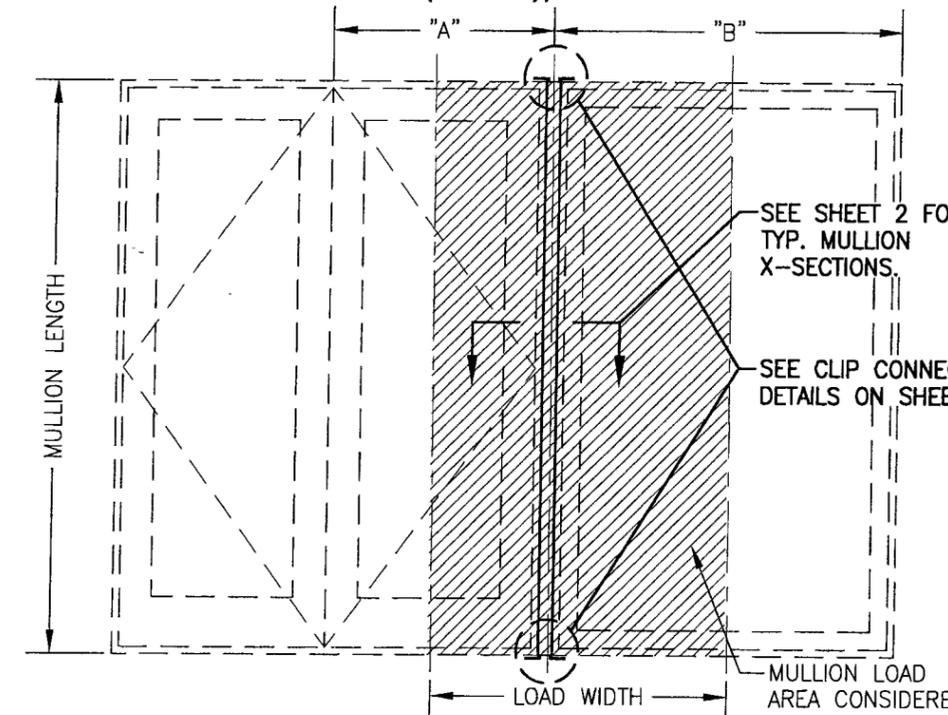
MULLION LOAD AREA CONSIDERED

CENTER OF DOOR OR WINDOW

CENTER OF WINDOW

**SINGLE DOOR OR OPERABLE WINDOW WITH SIDELIGHT,
DOOR TO DOOR OR OPERABLE WINDOW TO OPERABLE WINDOW**

LOAD WIDTH = (A + B)/2



SEE SHEET 2 FOR TYP. MULLION X-SECTIONS.
SEE CLIP CONNECTION DETAILS ON SHEET 5

MULLION LENGTH

LOAD WIDTH

MULLION LOAD AREA CONSIDERED

CENTER OF DOOR PANEL

CENTER OF WINDOW

**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.)	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
72	60	73.9	85.0
	42 OR LESS	85.0	85.0
	48	84.7	85.0
78	54	75.3	85.0
	60	67.7	85.0
	42 OR LESS	85.0	85.0
84	48	78.1	85.0
	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
	36 OR LESS	85.0	85.0
96	42	77.4	85.0
	48	67.7	85.0
	54	60.2	78.0
	60	54.2	70.2

DOOR OR CASEMENT WITH SIDELIGHT			
LENGTH (IN.)	LOAD WIDTH (IN.)	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
	54	56.4	73.2
102	60	50.8	65.8
	30 OR LESS	85.0	85.0
	36	79.7	85.0
	42	68.3	85.0
	48	59.8	77.5
108	54	53.1	68.9
	60	47.8	62.0
	30 OR LESS	85.0	85.0
	36	75.3	85.0
	42	64.5	83.6
123	48	56.4	73.2
	54	50.2	65.0
	60	45.2	58.5
	24 OR LESS	85.0	85.0
	30	79.3	85.0
123	36	66.1	85.0
	42	56.6	73.4
	48	49.6	64.2
	54	44.0	57.1
	60	39.6	51.4

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.

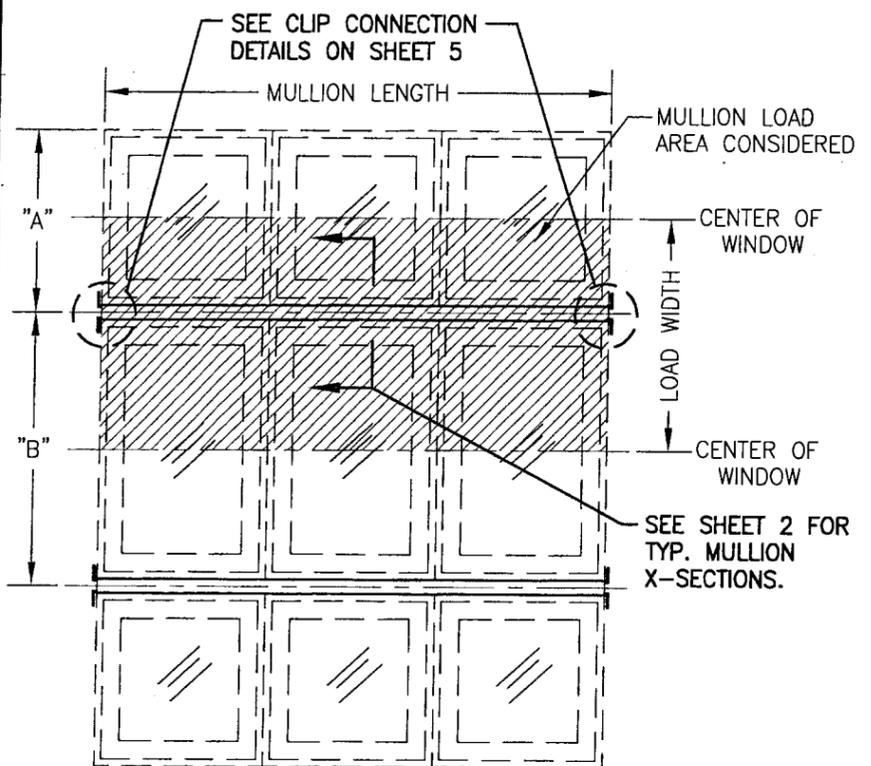
NOTE: TUBE TO TUBE CONNECTION, AS DETAILED ON SHEET 5, IS ACCEPTABLE FOR ALL CONN. "A", "B", "C" & "D" LOADS.

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

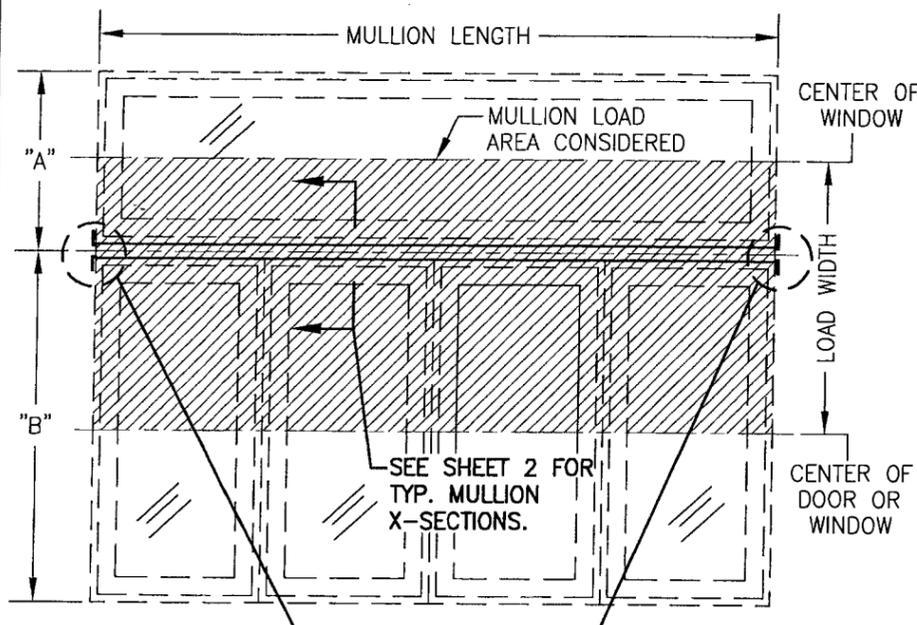
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 05-1018.07
Expiration Date MAY 29, 2008

By *[Signature]*
Product Control Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 02/05/03
NO.	DATE
REVISION DESCRIPTION	BY
DRAWING TITLE: LUXBAUM WINDOWS & DOORS & WINDOWS	
STEEL CLIPPED MULLION FOR WOODEN DOORS & WINDOWS	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	LUXBAUM, 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	
AUG 2 2005	
DRAWING NO.	REV.
1201	A
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
60	54 OR LESS	85.0	85.0
	60	81.3	85.0
	66	73.9	85.0
	72	67.7	85.0
	78	62.5	81.0
66	84	58.1	75.3
	48 OR LESS	85.0	85.0
	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
72	84	52.8	68.4
	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
78	96	42.3	54.9
	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
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"	
90	36 OR LESS	85.0	85.0	
	42	77.4	85.0	
	48	67.7	85.0	
	54	60.2	78.0	
	60	54.2	70.2	
96	66	49.3	63.9	
	72	45.2	58.5	
	78	41.7	54.0	
	84	38.7	50.2	
	90	36.1	46.8	
	96	33.9	43.9	
	108	30 OR LESS	85.0	85.0
		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	
120		30 OR LESS	85.0	85.0
		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	
	132	24 OR LESS	85.0	85.0
		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	
144		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	

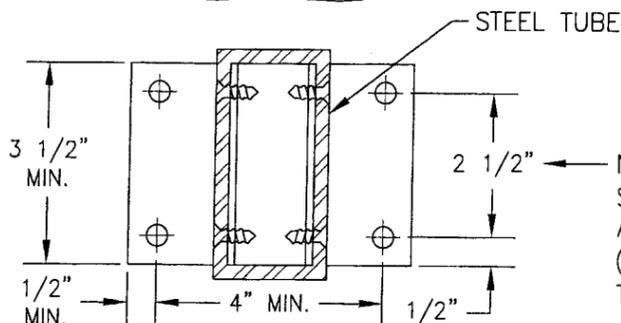
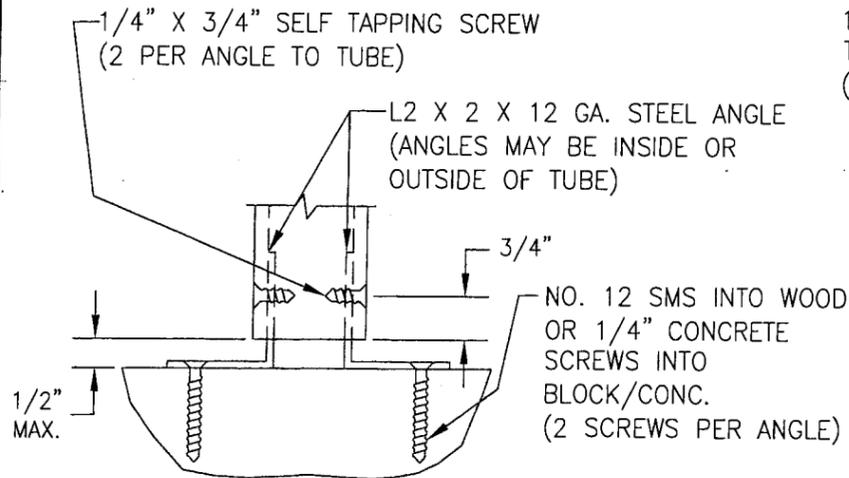
MULTIPLE WINDOWS/DOORS				
LENGTH (IN.)	LOAD WIDTH (IN.) A+B 2	ALLOWABLE PRESSURES (PSF) 4X2X3/16 TUBE		
		CONN. "A"	CONN. "B", "C" & "D"	
144	30 OR LESS	67.7	77.0	
	36	56.4	64.1	
	42	48.4	55.0	
	48	42.3	48.1	
	54	37.6	42.8	
156	60	33.9	38.5	
	72	-	32.1	
	30 OR LESS	60.5	60.5	
	36	50.5	50.5	
	42	43.2	43.2	
144	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	
156	84	-	31.4	
	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	
144	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
	156	60	33.9	43.9
		72	-	36.6
84		-	31.4	
30 OR LESS		62.5	81.0	
36		52.1	67.5	
144	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
 NOTE: INDIVIDUAL UNIT SIZES & SHUTTER REQUIREMENTS ARE LIMITED BY THEIR OWN INDIVIDUAL "NOTICE OF ACCEPTANCE"

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 05-1018-07
 Expiration Date MAY 29, 2008
 By: *Manuel Arz*
 Product Control

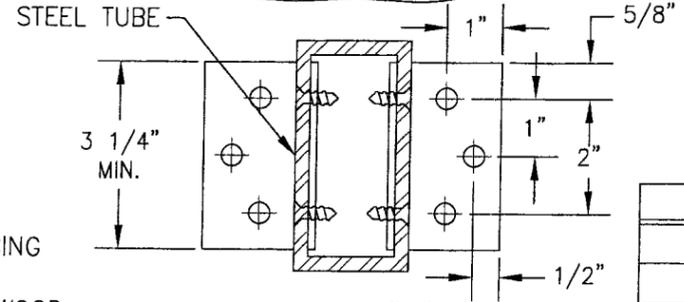
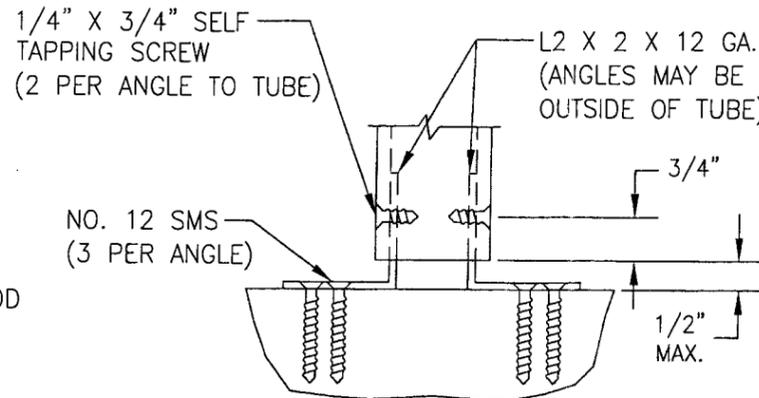
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 02/05/03
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE: LUXBAUM WINDOWS & DOORS	
STEEL CLIPPED MULLION FOR WOODEN DOORS & WINDOWS	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	LUXBAU, LLC
8895 N. MILITARY TRAIL, SUITE C-204 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	
AUG 12 2005	
WARREN W. SCHAEFER, P.E.	
DRAWING NO. 1201	REV. A
SHEET NO. 4	OF 5



CONN "A" & "C"
(INTO BLOCK, CONCRETE OR WOOD)

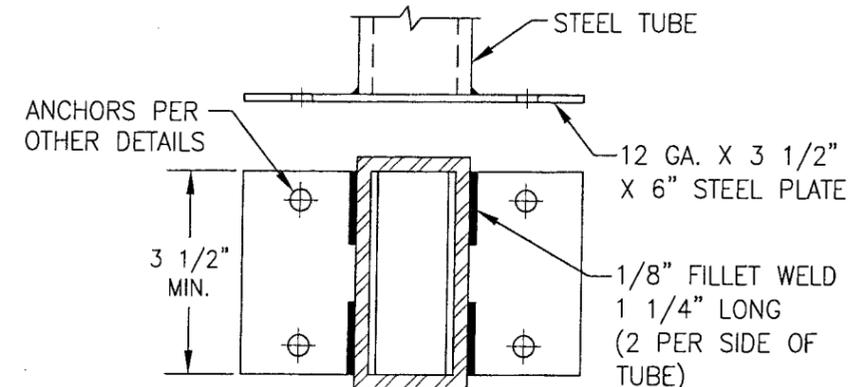
"A" = INTO WOOD OR BLOCK
 "C" = INTO MIN. 2500 PSI CONCRETE
 (WOOD = MIN. NO. 3 SOUTHERN PINE (G=0.55))

NOTE: ANCHOR SPACING SHALL BE 2" WHEN ANCHORED TO 2X4 WOOD (ANGLE MAY BE REDUCED TO 3 1/4" LONG)



CONN "B"
(INTO WOOD)

MIN. NO. 3 SOUTHERN PINE (G=0.55)

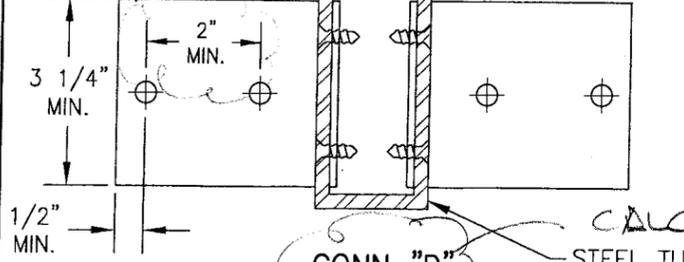
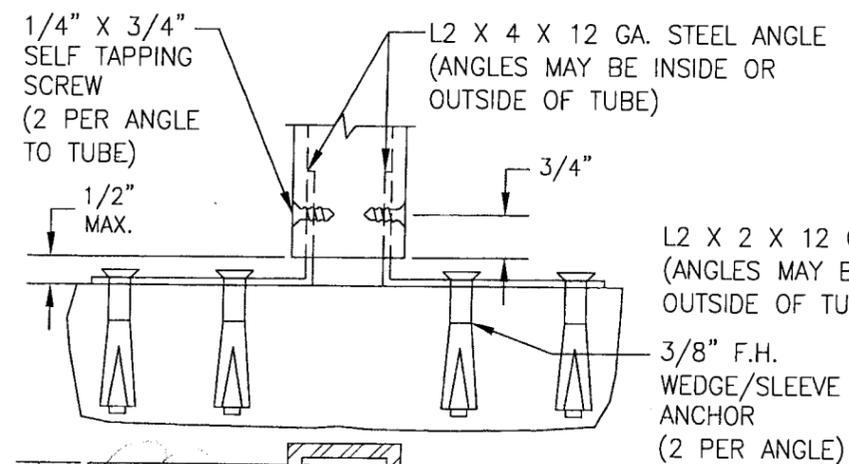


OPTIONAL END PLATE CONNECTION
(APPLICABLE TO ALL CONNECTION TYPES ON THIS SHEET)

ANCHOR REQUIREMENTS

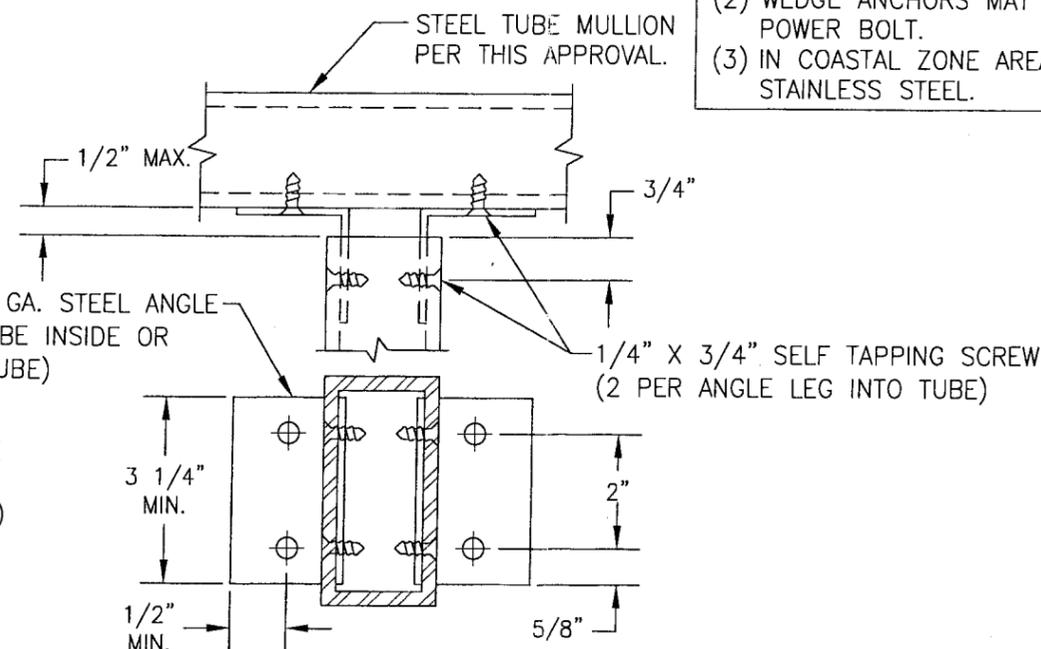
(3) ANCHOR	SUBSTRATE	MIN. EMBED	MIN. EDGE DIST.
NO. 12 SMS	WOOD	1 1/2"	3/4"
(1) 1/4" CONCRETE SCREW	BLOCK/CONCRETE	1 1/2"	2 1/4"
(2) 3/8" WEDGE/SLEEVE ANCHOR	CONCRETE FILLED BLOCK OR CONCRETE	2"	2 1/2"

- (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.



CONN "D"
(INTO CONCRETE FILLED BLOCK OR CONCRETE)

CALCS. FOR 2 1/2"



TYP. TUBE TO TUBE CONNECTION

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 05-1018.07
 Expiration Date MAY 29, 2008

By *Warren W. Schaeffer*
 National Code Product Control Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-3	DATE: 02/05/03
DATE: 06/12/05	BY: WWS
REVISION DESCRIPTION	NO.
ADDED ANCHORS TO CONN "D".	A2
REVISED EDGE DISTANCE FOR CONCR. SCREW & OMITTED RED HEAD TAPCONS	
DRAWING TITLE: LUXBAUM WINDOWS & DOORS	
DRAWING TITLE: STEEL CLIPPED MULLION FOR WOODEN DOORS & WINDOWS	
CONSULTANTS: W. W. SCHAEFFER 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: AUG 12 2005	WARREN W. SCHAEFFER, P.E. P.E. NO. 44135
DRAWING NO. 1201	REV. A
SHEET NO. 5 OF 5	