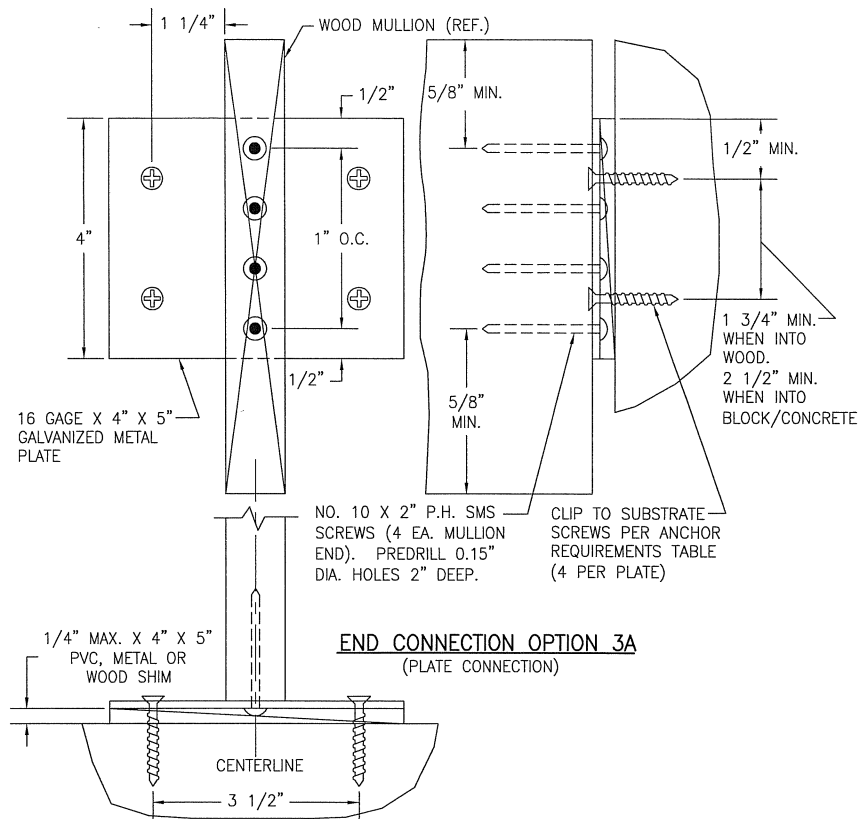
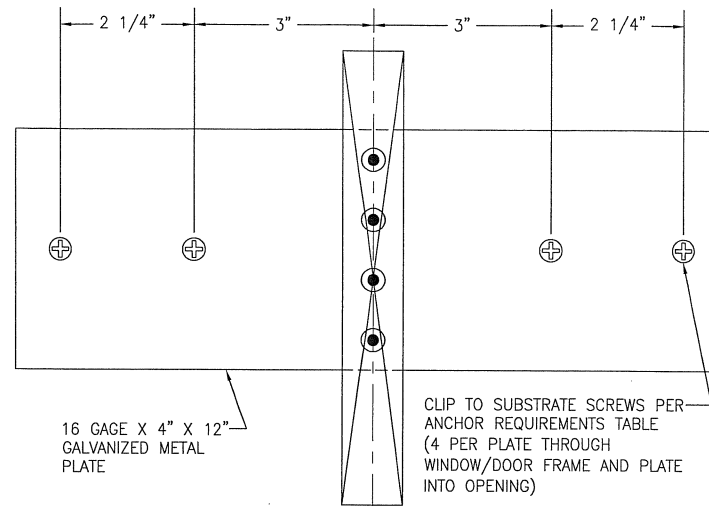


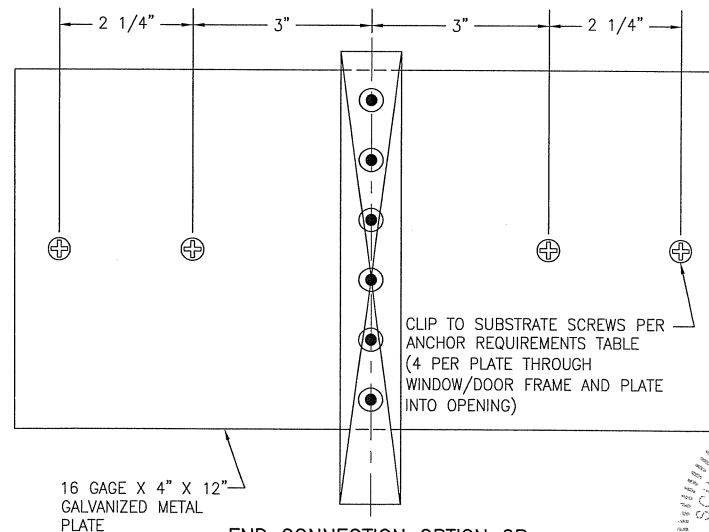


END CONNECTION OPTION 3A
(PLATE CONNECTION)

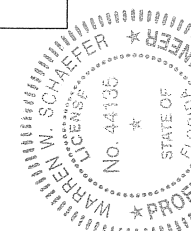
NOTE: CONNECTIONS 2B & 3B ARE TYPICALLY USED WHEN IT IS DESIRED TO PRE-ASSEMBLE THE MULLED UNIT PRIOR TO INSTALLATION.



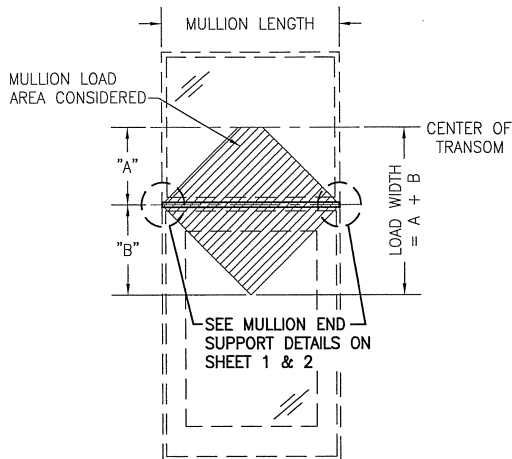
END CONNECTION OPTION 3B
(SEE CONNECTION 3A FOR ATTACHMENT OF PLATE TO MULLION)



END CONNECTION OPTION 2B
(SEE CONNECTION 2A FOR ATTACHMENT OF PLATE TO MULLION)



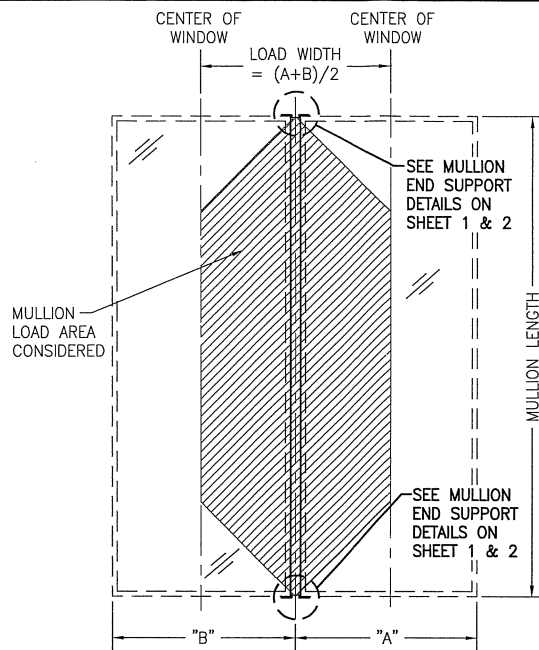
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 08/12/05	
NO.	REVISION	DESCRIPTION	DATE
1			
DRAWING TITLE: 1" X 7.56" (25.4mm X 192mm) NON-IMPACT WOOD MULLION			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL			
PHONE: 381-744-3424			
MANUFACTURER: C.P. LOEWEN ENTERPRISES			
77 HWY. 52 WEST STEINBACH, MB CANADA R5G 1B2			
204-326-6446			
CERTIFICATION: WARREN W. SCHAEFER, P.E. No. 44136			
JAN 08 2005			
DRAWING NO.	REV.		
1443	C		
SHEET NO.	2	OF 5	



"A" = LESSER OF (MULLION LENGTH/2) OR (TRANSOM HEIGHT/2)
 "B" = MULLION LENGTH/2

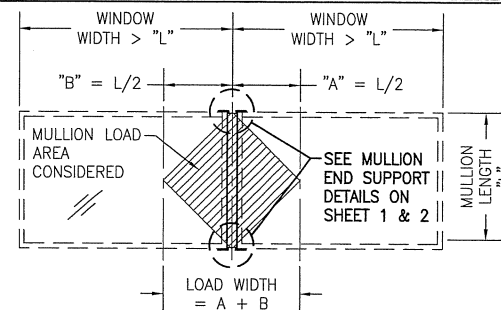
SINGLE WINDOW OR DOOR WITH FIXED TRANSOM
 (SEE LOAD TABLE 1.0)

NOTE: WINDOW/DOOR MAY BE ANY FIXED OR OPERABLE UNIT
 NOTE: MULLION MAY BE HORIZONTAL OR VERTICAL

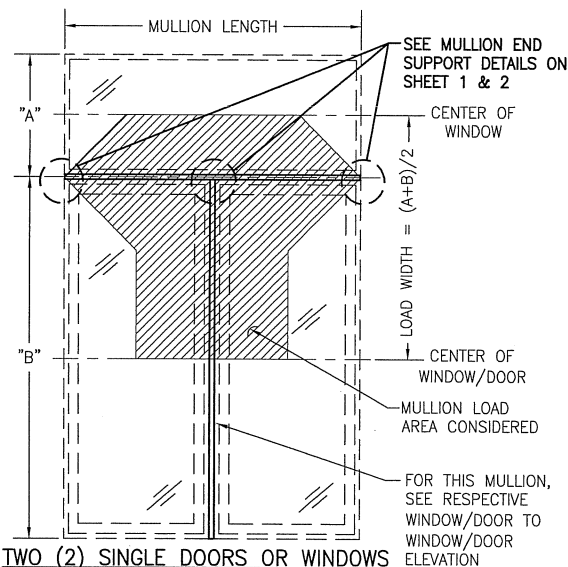


**FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS
 ARE LESS THAN OR EQUAL TO THE MULLION LENGTH**
 (SEE LOAD TABLE 1.0)

NOTE: MULLION MAY BE HORIZONTAL OR VERTICAL



**FIXED WINDOW TO FIXED WINDOW
 WHEN WINDOW WIDTHS ARE GREATER
 THAN THE MULLION LENGTH**
 (SEE LOAD TABLE 1.0)



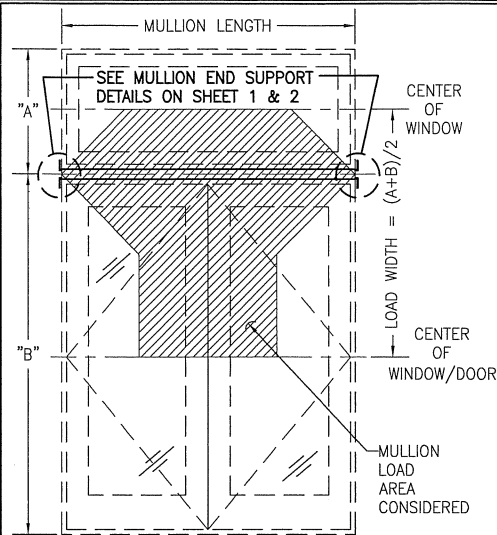
**TWO (2) SINGLE DOORS OR WINDOWS
 WITH A SINGLE FIXED TRANSOM**
 (SEE LOAD TABLE 2.0)

NOTE: DOORS/WINDOWS MAY BE OPERABLE OR FIXED.

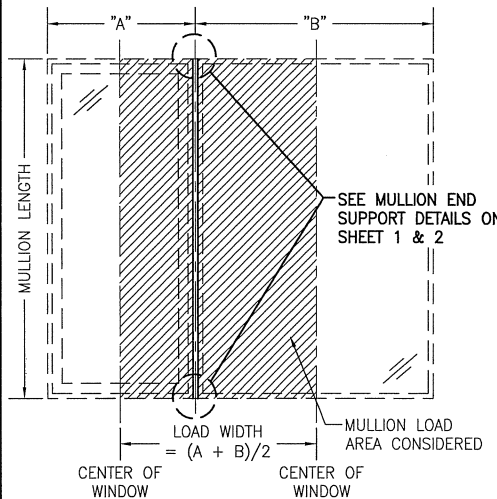
GENERAL NOTES:

1. THIS MULLION IS FOR USE WITH C.P. LOEWEN ENTERPRISES NON-IMPACT ALUMINUM CLAD WOOD WINDOWS AND DOORS.
2. THIS MULLION AND ITS CONNECTIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND NDS SPECIFICATIONS.
3. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THIS DRAWING. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. ALL ANCHORS SECURING CLIPS/PLATES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
5. BUCKING, OPENINGS AND BUCKING FASTENERS MUST BE PROPERLY DESIGNED AND INSTALLED TO RESIST WIND LOADS TRANSFERRED FROM THE MULLION TO THE STRUCTURE.
6. CONNECTION OF THE WINDOWS AND DOORS TO THIS MULLION IS NOT PART OF THIS CERTIFICATION & SHALL BE DETERMINED BY OTHERS. CONNECTION SHALL BE AS REQUIRED TO PROPERLY SUPPORT THE WINDOWS/DOORS TO THE MULLION MEMBER.
7. DOORS & WINDOWS SHALL BE UNDER SEPERATE CERTIFICATION & SHALL BE LIMITED BY THOSE CERTIFICATIONS. SEE THE PRODUCTS SPECIFIC CERTIFICATION FOR THEIR USE.
8. ALLOWABLE PRESSURE ON THE MULLED UNIT SHALL BE CONTROLLED BY THE LESSER ALLOWABLE PRESSURE OF THE MULLION, OR THE INDIVIDUAL DOOR/WINDOW UNITS.
9. ANY CONDITIONS NOT COVERED IN THIS CERTIFICATION SHALL BE SUBJECT TO SEPERATE ENGINEERING REVIEW.
10. WHEN VERTICALLY STACKED, THE MANUFACTURER/INSTALLER SHALL INSURE THAT THE DEAD WEIGHT OF THE ABOVE WINDOWS WILL NOT CAUSE UNDO STRESS ON THE BELOW WINDOWS. THESE MULLIONS ARE DESIGNED TO SUPPORT WIND LOAD ONLY & ARE NOT CONSIDERED TO SUPPORT DEAD LOAD OF THE WINDOWS/DOORS.

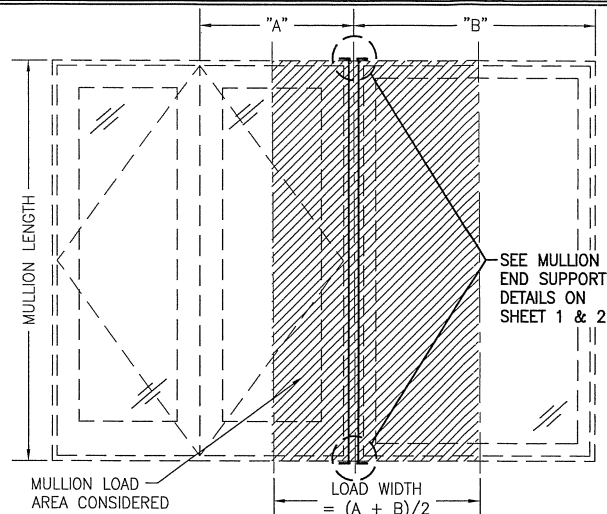
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 09/12/05	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE 1" X 7.56" (25.4mm X 192mm) NON-IMPACT WOOD MULLION		MANUFACTURER C.P. LOEWEN ENTERPRISES 77 HWY. 52 WEST STEINBACH, MB CANADA R5G 1B2 204-326-6446	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 130TH COURT NORTH 33418 PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		P.E. NO. 44135	
CERTIFICATION JAN 08 2015		P.E. NO. 44135	
DRAWING NO. 1443		REV. C	
SHEET NO. 3		OF 5	



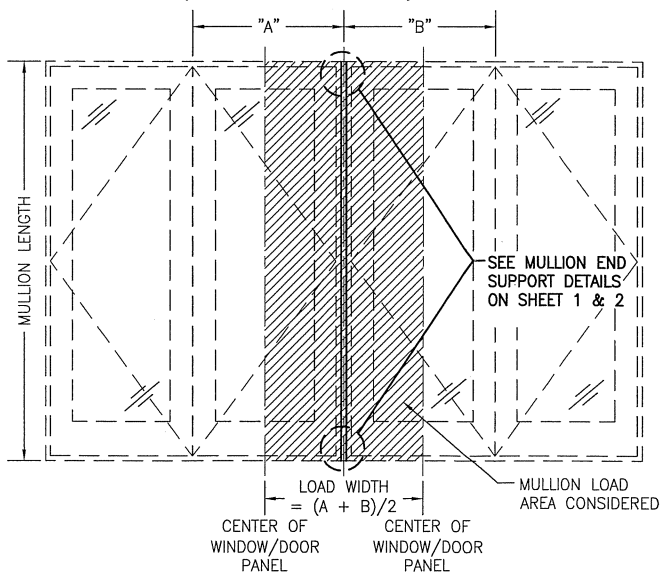
DOUBLE PANEL DOOR OR CASEMENT WINDOW WITH A SINGLE FIXED TRANSOM
(SEE LOAD TABLE 2.0)



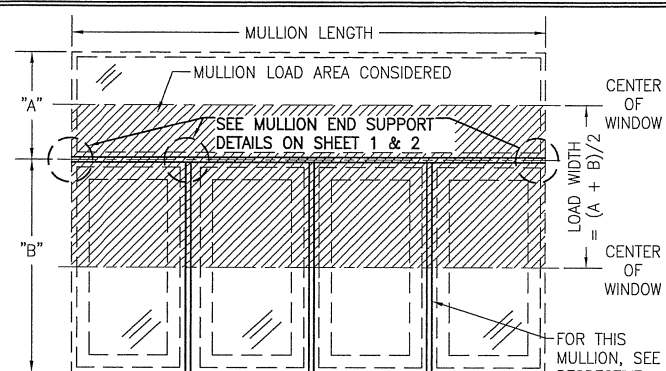
SINGLE OPERABLE DOOR/WINDOW TO A SINGLE OPERABLE OR FIXED DOOR/WINDOW
(SEE LOAD TABLE 3.0)



DOUBLE PANEL DOOR/WINDOW TO A SINGLE DOOR OR FIXED SIDELIGHT
(SEE LOAD TABLE 3.0)

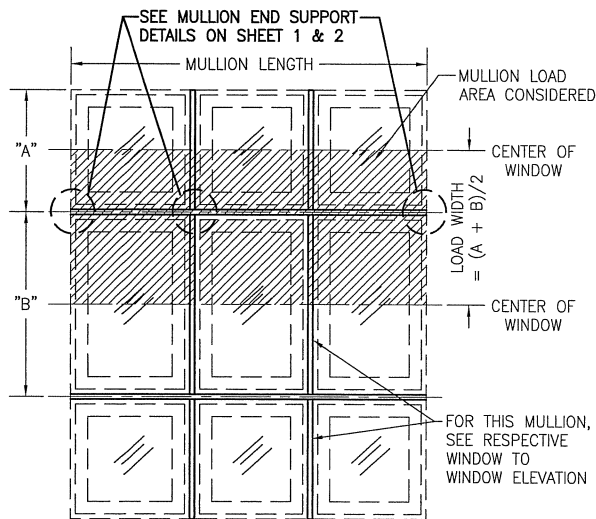


DOUBLE PANEL DOOR/WINDOW TO A DOUBLE PANEL DOOR/WINDOW
(SEE LOAD TABLE 3.0)



MULTIPLE WINDOWS/DOORS WITH TRANSOM
(SEE LOAD TABLE 3.0)

NOTES: 1. TRANSOM MAY BE SINGLE OR MULTIPLE WINDOWS.
2. CONTINUOUS MULLION MAY BE HORIZONTAL OR VERTICAL (HORIZONTAL SHOWN).



MULTIPLE WINDOWS (SEE LOAD TABLE 3.0)
(CONTINUOUS MULLION MAY BE HORIZONTAL OR VERTICAL (HORIZONTAL SHOWN))

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 09/12/05	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 1" X 7.56" (25.4mm X 192mm) NON-IMPACT WOOD MULLION			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 361-744-3424		C.P. LOEWEN ENTERPRISES 77 HWY. 52 WEST STEINBACH, MB CANADA R5G 1B2 204-326-6446	
SIGNATURE: WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DATE: JAN 08 2015	
DRAWING NO. 1443		REV. C	
SHEET NO. 4		OF 5	

LOAD TABLE 1.0			
MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		CONNECTION OPTION	
		OPTIONS 1, 3A & 3B	OPTIONS 2A & 2B
54	54	85.0	85.0
	60	85.0	76.8
	54	85.0	77.6
	48	85.0	80.0
60	42	85.0	84.4
	72	76.2	53.3
	66	80.6	53.7
	60	82.3	54.9
72	54	85.0	56.9
	48	85.0	60.0
	42	85.0	64.5
	36	85.0	71.1
84	30	85.0	80.8
	24	85.0	85.0
	72	56.0	40.0
	66	61.1	41.1
96	60	64.0	42.7
	54	67.4	44.9
	48	72.0	48.0
	42	78.4	52.2
108	36	85.0	58.2
	30	85.0	66.8
	24	85.0	80.0
	18	85.0	85.0
120	72	42.9	32.0
	66	46.8	33.2
	60	51.4	34.9
	54	55.7	37.1
120	48	60.0	40.0
	42	65.8	43.9
	36	73.8	49.2
	30	85.0	56.9
120	24	85.0	68.6
	18	85.0	85.0
	60	40.6	29.5
	54	45.2	31.6
120	48	50.8	34.3
	42	56.7	37.8
	36	64.0	42.7
	30	74.3	49.5
120	24	85.0	60.0
	18	85.0	77.6
	60	32.9	25.6
	54	36.6	27.5
120	48	41.2	30.0
	42	47.0	33.2
	36	54.9	37.6
	30	65.8	43.9
120	24	80.0	53.3
	18	85.0	69.2

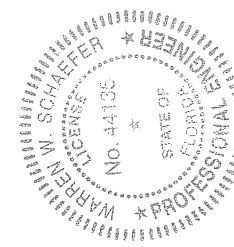
LOAD TABLE 2.0			
MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		CONNECTION OPTION	
		OPTIONS 1, 3A & 3B	OPTIONS 2A & 2B
36	72	85.0	76.2
	66	85.0	83.1
	60	85.0	85.0
	72	85.0	57.1
48	66	85.0	62.3
	60	85.0	68.6
	54	85.0	76.2
	48	85.0	85.0
60	72	68.6	45.7
	66	74.8	49.9
	60	82.3	54.9
	54	85.0	61.0
72	48	85.0	68.6
	42	85.0	78.4
	36	85.0	85.0
	72	57.1	38.1
84	66	62.3	41.6
	60	68.6	45.7
	54	76.2	50.8
	48	85.0	57.1
96	42	85.0	65.3
	36	85.0	76.2
	72	49.0	32.7
	66	53.4	35.6
108	60	58.8	39.2
	54	65.3	43.5
	48	73.5	49.0
	42	84.0	56.0
120	36	85.0	65.3
	72	42.9	28.6
	66	46.8	31.2
	60	51.4	34.3
120	54	57.1	38.1
	48	64.3	42.9
	42	73.5	49.0
	36	85.0	57.1

INSTRUCTIONS FOR TABLE USE:

1. DETERMINE REQUIRED WIND PRESSURE FOR THE OPENING.
2. DETERMINE THE MULLION LENGTH & LOAD WIDTH USING THE APPLICABLE ELEVATION ON SHEETS 3 & 4.
3. CHOOSE A CONNECTION TYPE THAT MEETS OR EXCEEDS THE REQUIRED PRESSURE FOR THE APPLICABLE MULLION LENGTH & LOAD WIDTH CONDITIONS.

THESE LOAD TABLES ARE CERTIFIED AS CORRECT IN CONTENT. HOWEVER, CHOOSING OF THE CORRECT MULLION & CONNECTION FROM THESE TABLES FOR ITS SPECIFIC USE IS THE RESPONSIBILITY OF THOSE USING THE TABLES AND SHOULD BE VERIFIED BY THE BUILDING OFFICIAL OR A FLORIDA CERTIFIED ENGINEER.

LOAD TABLE 3.0							
MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)		MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		CONNECTION OPTION				CONNECTION OPTION	
		OPTIONS 1, 3A & 3B	OPTIONS 2A & 2B			OPTIONS 1, 3A & 3B	OPTIONS 2A & 2B
36	72	80.0	53.3	84	72	34.3	22.9
	66	85.0	58.2		66	37.4	24.9
	60	85.0	64.0		60	41.1	27.4
	54	85.0	71.1		54	45.7	30.5
	48	85.0	80.0		48	51.4	34.3
	42	85.0	85.0		42	58.8	39.2
48	72	60.0	40.0	96	36	68.6	45.7
	66	65.5	43.6		30	82.3	54.9
	60	72.0	48.0		24	85.0	68.6
	54	80.0	53.3		18	85.0	85.0
	48	85.0	60.0		72	30.0	20.0
	42	85.0	68.6		66	32.7	21.8
60	36	85.0	80.0	108	60	36.0	24.0
	30	85.0	85.0		54	40.0	26.7
	72	48.0	32.0		48	45.0	30.0
	66	52.4	34.9		42	51.4	34.3
	60	57.6	38.4		36	60.0	40.0
	54	64.0	42.7		30	72.0	48.0
72	48	72.0	48.0	120	24	85.0	60.0
	42	82.3	54.9		18	85.0	80.0
	36	85.0	64.0		60	32.0	21.3
	30	85.0	76.8		54	35.6	23.7
	24	85.0	85.0		48	40.0	26.7
	72	40.0	26.7		42	45.7	30.5
84	66	43.6	29.1	120	36	53.3	35.6
	60	48.0	32.0		30	64.0	42.7
	54	53.3	35.6		24	80.0	53.3
	48	60.0	40.0		18	85.0	71.1
	42	68.6	45.7		48	36.0	24.0
	36	80.0	53.3		42	41.1	27.4
96	30	85.0	64.0	120	36	48.0	32.0
	24	85.0	80.0		30	57.6	38.4
	18	85.0	85.0		24	72.0	48.0
	72	40.0	26.7		18	85.0	64.0
	66	43.6	29.1				
	60	48.0	32.0				



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=1		DATE: 09/12/05	
NO.	DATE	REVISION	DESCRIPTION
1			
DRAWING TITLE: 1" X 7.56" (25.4mm X 192mm) NON-IMPACT WOOD MULLION			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		C.P. LOEVEN ENTERPRISES	
7480 130TH COURT NORTH		77 HWY. 52 WEST	
PALM BEACH GARDENS, FL 33418		STEINBACH, MB CANADA R5G 1B2	
PHONE: 561-744-5424		204-326-6446	
CERTIFICATION		P.E. NO. 44135	
JAN 08 2015			
DRAWING NO. 1443		REV. C	
SHEET NO. 5		OF 5	