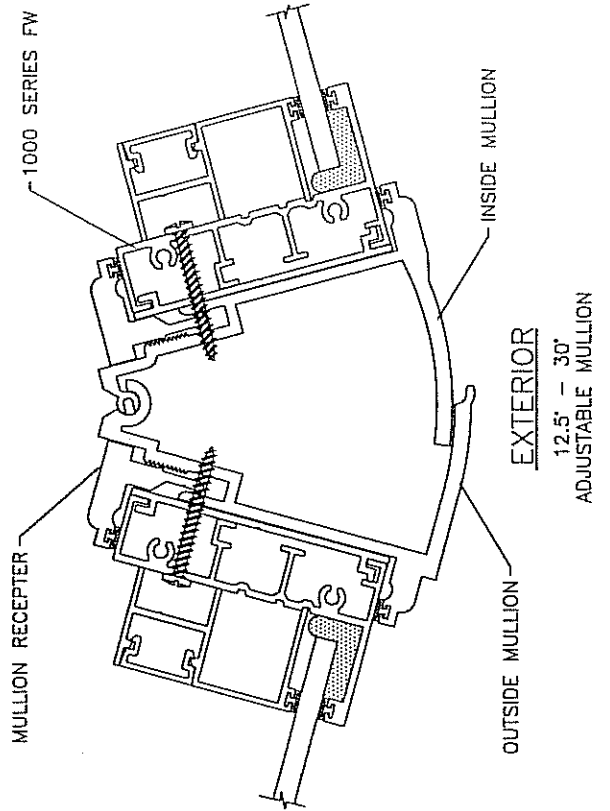
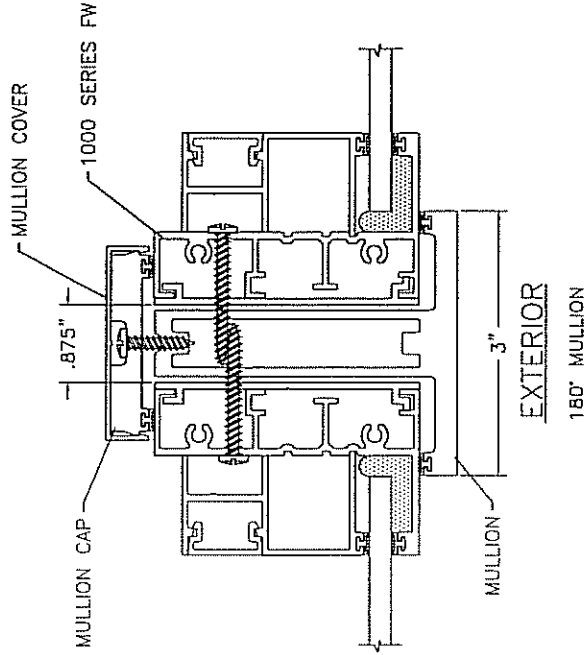
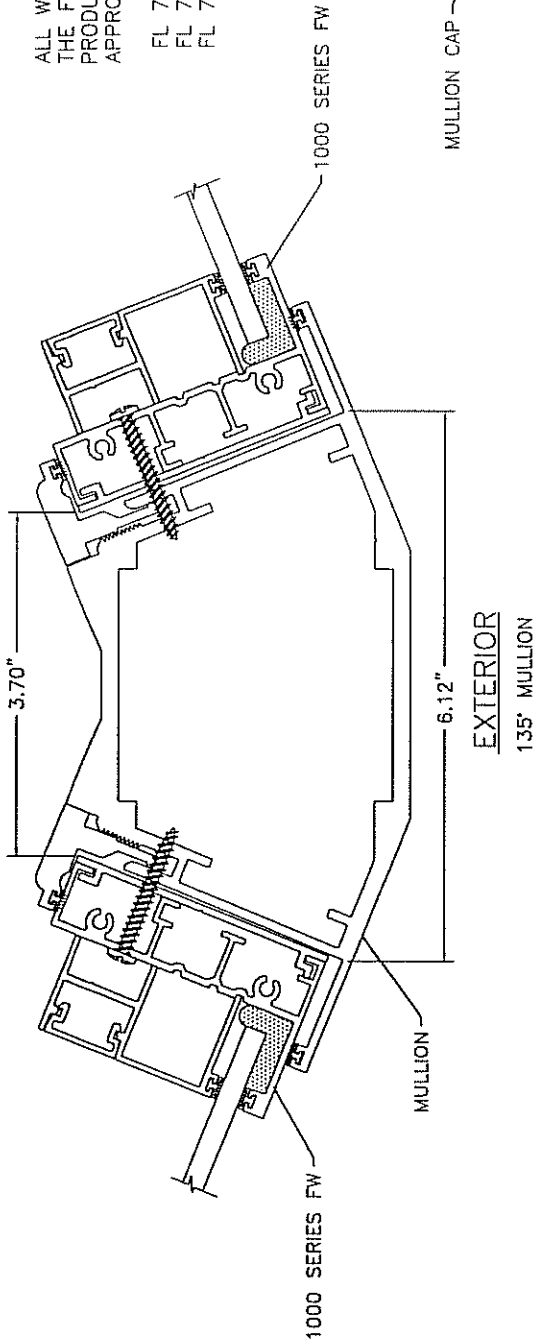


ALL WinDoor 1000 SERIES MULLIONS ARE LISTED ON THE FLORIDA BUILDING COMMISSION STATEWIDE PRODUCT APPROVAL WEBSITE, SEE BELOW FOR APPROVAL NUMBERS.

- FL 7213.1 - 135' MULLION
- FL 7213.2 - 180' MULLION
- FL 7213.3 - ADJUSTABLE MULLION



**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832

Phone: 407.481.8400  
Fax: 407.481.0505

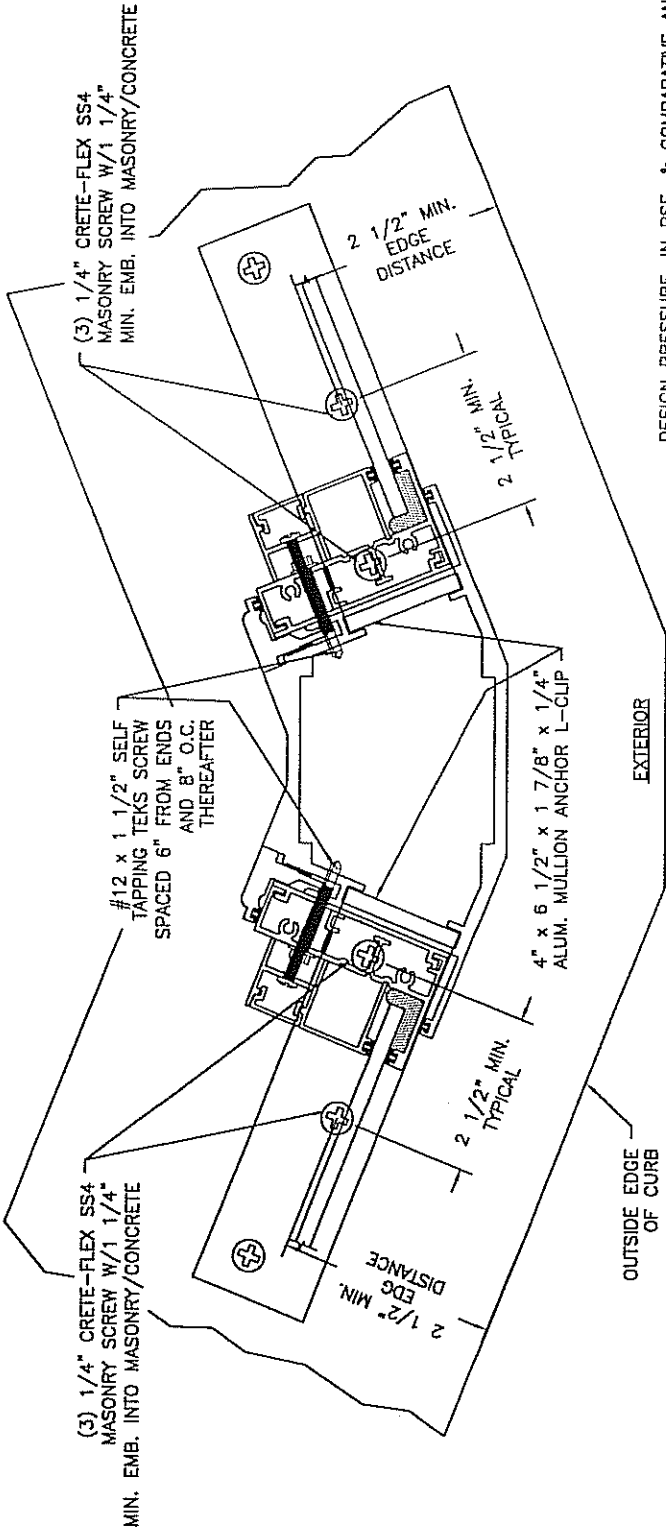
www.windowinc.com

Dwg Title:

1000 SERIES - MULLION OPTIONS  
135', 180' & 12.5' - 30' ADJUSTABLE

SIZE	Drn By:	DWG NO.	REV
-	TJH	05-08-1092	-

SCALE N.T.S. DATE: 8/11/05 SHEET 1 of 1



DESIGN PRESSURE, IN PSF, & COMPARATIVE ANALYSIS CHART  
HIGH DESIGN PRESSURE CHART, SEE NOTE 7

SINGLE WDR. WITH MULL SPAN V	24.0	30.0	35.0	42.0	48.0	54.0	60.0	60.125	65.0	72.0
60.0										
65.0							180	200	200	200
72.0				180	180	180	180	200	200	200
78.0				180	180	180	180	180	180	180
84.0				180	180	180	180	180	175	175
90.0				180	180	180	180	180	167	158
95.0				180	180	180	180	180	165	153
102.0				180	180	180	180	180	152	140
108.0				180	180	180	180	180	141	130
114.0				180	180	180	180	180	132	121
120.0				180	180	180	180	180	127	115
				180	180	180	180	180	105	96

- NOTES:
1. THE PRODUCT SHOWN HEREIN COMPLIES WITH THE 2004 FLORIDA BUILDING CODE. MASONRY OPENING MUST BE DESIGNED PROPERLY TO TRANSFER ALL LOADS TO THE STRUCTURE. THE MASONRY OPENING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
  2. THIS DRAWING APPLIES TO MULTIPLE WINDOWS IN A SINGLE OPENING. NO TWO WINDOW WIDTH IN A MULTIPLE CONFIGURATION CAN EXCEED 150.125". FOR MAXIMUM SINGLE WINDOW SIZE IN A MULLED CONFIGURATION SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE DESIGN PRESSURES SHOWN IN THE CHART ARE ONLY FOR THE MULLION AND MULLION CLIP ANCHORS. SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT.
  3. DESIGN PRESSURES SHOWN IN THE CHART ARE BOTH POSITIVE AND NEGATIVE IN PSF.
  4. DESIGN PRESSURES IN THE CHART ARE BASED ON USING (6) ELCO CRETE-FLEX SS4 MASONRY SCREWS ATTACHING THE MULL CLIPS TO THE SUBSTRATE AT EACH END OF THE MULLION. THE DESIGN PRESSURES ARE BASED ON THE COMPARATIVE ANALYSIS OF THE MULLION AND ANCHOR CAPACITY, FOR LOWER DESIGN PRESSURES AND (4) ANCHORS ATTACHING THE MULL CLIPS SEE DRAWING 06-01-1382 SHEET 2.
  5. IF THE WINDOW SIZE THAT YOU ARE USING IN THE CHART DOES NOT HAVE A DESIGN PRESSURE IN IT, SEE DRAWING 06-01-1382 SHEET 2 FOR DESIGN PRESSURE.
  6. THIS DRAWING ONLY ADDRESSES THE ANCHORING OF THE MULLION L-CLIP TO THE SUBSTRATE AT THE HEAD AND SILL AND THE ANCHORING OF THE WINDOW JAMB TO THE MULLION. SEE DRAWINGS CALLED OUT IN NOTES 4 & 5 FOR THE HEAD, SILL AND JAMB ANCHORING OF EACH SINGLE WINDOW TO THE SUBSTRATE IN THE MULLED UNIT.

**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832

Phone: 407.481.8400  
Fax: 407.481.0505

www.windowinc.com

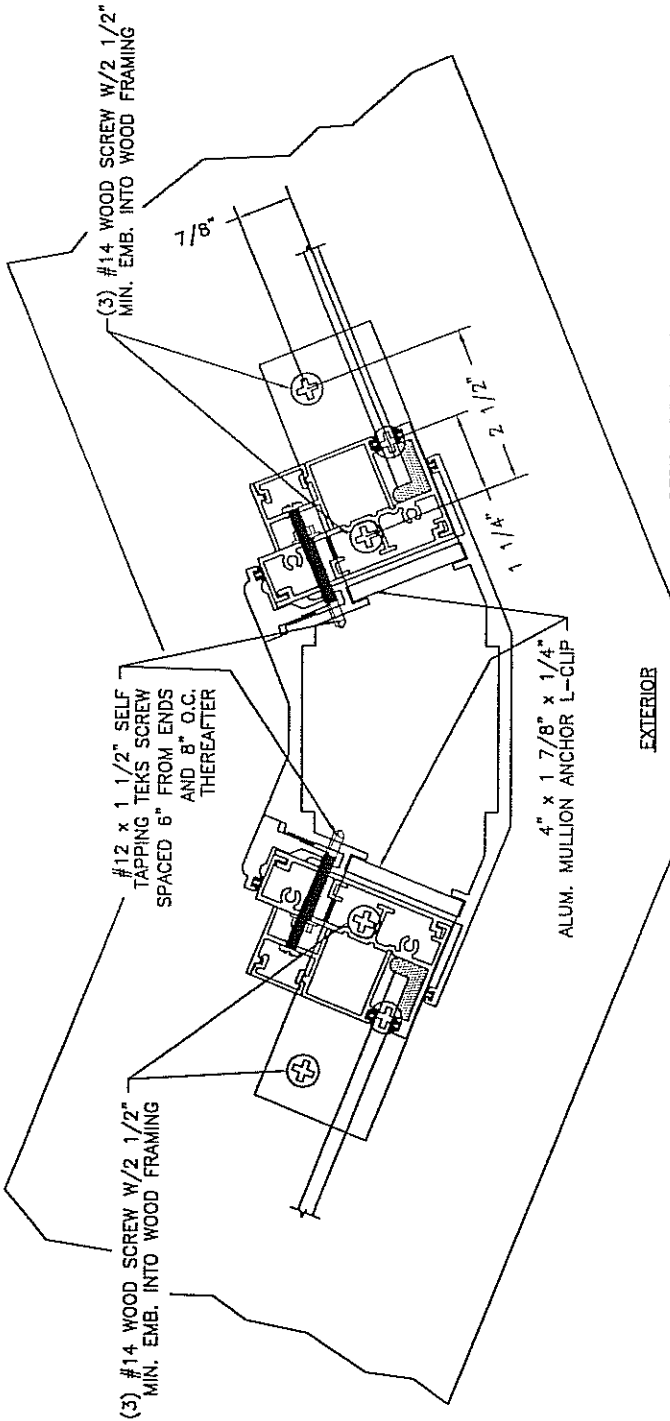
Dwg Title:

1000 SERIES - 135° MULLION INSTALLATION DETAIL  
MASONRY/CONCRETE HIGH DESIGN PRESSURE LOADS

SIZE Dwn By: DWG NO. 06-01-1382 REV - TJH -

SCALE N.T.S. DATE: 01/03/06 SHEET 1 of 2





DESIGN PRESSURE IN PSF & COMPARATIVE ANALYSIS CHART  
HIGH DESIGN PRESSURE CHART, SEE NOTE 7

SINGLE WIND WITH MULL SPAN V	24.0	30.0	35.0	42.0	48.0	54.0	NON-IMPACT UNITS ONLY	
							60.125	66.0
60.0								72.0
66.0								
72.0								200
78.0					180	180	180	180
84.0				180	180	180	180	180
90.0				180	180	180	180	180
96.0				180	180	178	167	
102.0				180	176	162	152	
108.0				180	154	142	133	
114.0				160	135	125	116	
120.0	180	156	144	127	115	105	98	

- NOTES:
1. THE PRODUCT SHOWN HEREIN COMPLIES WITH THE 2004 FLORIDA BUILDING CODE. WOOD FRAMING MUST BE DESIGNED PROPERLY TO TRANSFER ALL LOADS TO THE STRUCTURE. THE WOOD FRAMING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
  2. THIS DRAWING APPLIES TO MULTIPLE WINDOWS IN A SINGLE OPENING. NO TWO WINDOW WIDTH IN A MULTIPLE CONFIGURATION CAN EXCEED 150.125".
  3. FOR MAXIMUM SINGLE WINDOW SIZE IN A MULLED CONFIGURATION SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT.
  4. THE DESIGN PRESSURES SHOWN IN THE CHART ARE ONLY FOR THE MULLION AND MULLION CLIP ANCHORS. SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT.
  5. DESIGN PRESSURES SHOWN IN THE CHART ARE BOTH POSITIVE AND NEGATIVE IN PSF.
  6. DESIGN PRESSURES IN THE CHART ARE BASED ON USING (6) WOOD SCREWS ATTACHING THE MULL CLIPS TO THE SUBSTRATE AT EACH END OF THE MULLION. THE DESIGN PRESSURES ARE BASED ON THE COMPARATIVE ANALYSIS OF THE MULLION AND ANCHOR CAPACITY. FOR LOWER DESIGN PRESSURES AND (4) ANCHORS ATTACHING THE MULL CLIPS SEE DRAWING 06-01-1383 SHEET 2.
  7. IF THE WINDOW SIZE THAT YOU ARE USING IN THE CHART DOES NOT HAVE A DESIGN PRESSURE IN IT, SEE DRAWING 06-01-1383 SHEET 2 FOR DESIGN PRESSURE.
  8. THIS DRAWING ONLY ADDRESSES THE ANCHORING OF THE MULLION L-CLIP TO THE SUBSTRATE AT THE HEAD AND SILL AND THE ANCHORING OF THE WINDOW JAMB TO THE MULLION. SEE DRAWINGS CALLED OUT IN NOTES 4 & 5 FOR THE HEAD, SILL AND JAMB ANCHORING OF EACH SINGLE WINDOW TO THE SUBSTRATE IN THE MULLED UNIT.

**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832

Phone: 407.481.8400  
Fax: 407.481.0505

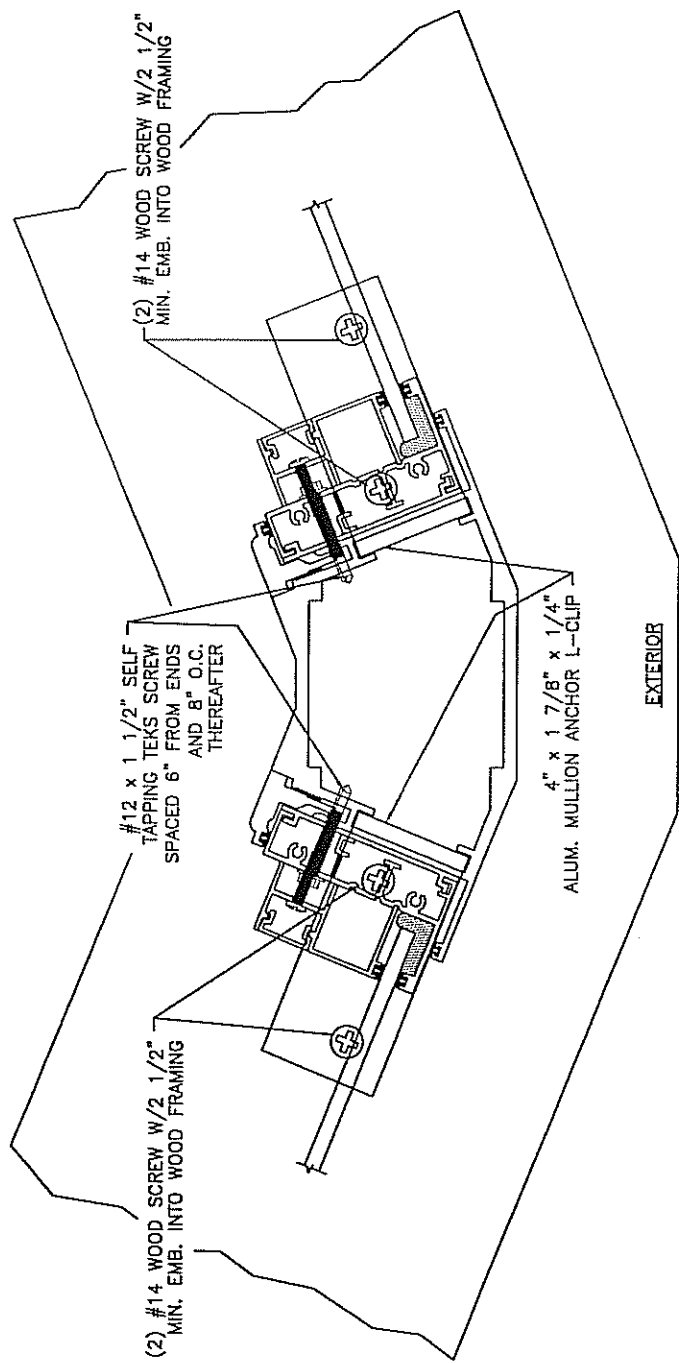
www.windoorinc.com

Dwg Title:

1000 SERIES - 135' MULLION INSTALLATION DETAIL  
WOOD FRAMING HIGH DESIGN PRESSURE LOADS

SIZE	By:	DWG NO.	REV
-	TJH	06-01-1383	-

SCALE	N.T.S.	DATE:	01/03/06	SHEET	1 of 2
-------	--------	-------	----------	-------	--------



DESIGN PRESSURE, IN PSF, & COMPARATIVE ANALYSIS CHART  
LOW DESIGN PRESSURE CHART, SEE NOTE 7 BELOW

MULLION SPAN, V	24.0	30.0	36.0	42.0	48.0	54.0	60.0	NON-IMPACT UNITS ONLY	
								60.125	66.0
50.0	180	180	180	180	180	180	180	200	200
55.0	180	180	180	180	180	180	180	200	200
60.0	180	180	180	180	180	180	180	175	171
65.0	180	180	180	180	180	180	180	153	153
70.0	180	180	180	180	180	180	180	143	125
75.0	180	180	180	180	180	180	180	139	122
80.0	180	180	180	180	180	180	180	128	111
85.0	180	180	180	180	180	180	180	109	102
90.0	180	180	180	180	180	180	180	101	94
95.0	180	180	180	180	180	180	180	102	87
100.0	180	180	180	180	180	180	180	95	81
105.0	180	180	180	180	180	180	180	95	81
110.0	180	180	180	180	180	180	180	95	81
115.0	180	180	180	180	180	180	180	95	81
120.0	180	180	180	180	180	180	180	95	81

- NOTES:
1. THE PRODUCT SHOWN HEREIN COMPLIES WITH THE 2004 FLORIDA BUILDING CODE.
  2. WOOD FRAMING MUST BE DESIGNED PROPERLY TO TRANSFER ALL LOADS TO THE STRUCTURE. THE WOOD FRAMING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
  3. THIS DRAWING APPLIES TO MULTIPLE WINDOWS IN A SINGLE OPENING. NO TWO WINDOW WIDTH IN A MULTIPLE CONFIGURATION CAN EXCEED 150.125"
  4. FOR MAXIMUM SINGLE WINDOW SIZE IN A MULLED CONFIGURATION SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT.
  5. THE DESIGN PRESSURES SHOWN IN THE CHART ARE ONLY FOR THE MULLION AND MULLION CLIP ANCHORS. SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT.
  6. DESIGN PRESSURES SHOWN IN THE CHART ARE BOTH POSITIVE AND NEGATIVE IN PSF.
  7. DESIGN PRESSURES IN CHART ARE BASED ON USING (4) WOOD SCREWS ATTACHING THE MULL CLIPS TO THE SUBSTRATE AT EACH END OF THE MULLION. THE DESIGN PRESSURES ARE LIMITED BY THE CAPACITY OF THE ANCHORS, FOR HIGHER DESIGN PRESSURES SEE DRAWING 06-01-1383 SHEET 1.
  8. THIS DRAWING ONLY ADDRESSES THE ANCHORING OF THE MULLION L-CLIP TO THE SUBSTRATE AT THE HEAD AND SILL AND THE ANCHORING OF THE WINDOW JAMB TO THE MULLION. SEE DRAWINGS CALLED OUT IN NOTES 4 & 5 FOR THE HEAD, SILL, AND JAMB ANCHORING OF EACH SINGLE WINDOW TO THE SUBSTRATE IN THE MULLED UNIT.

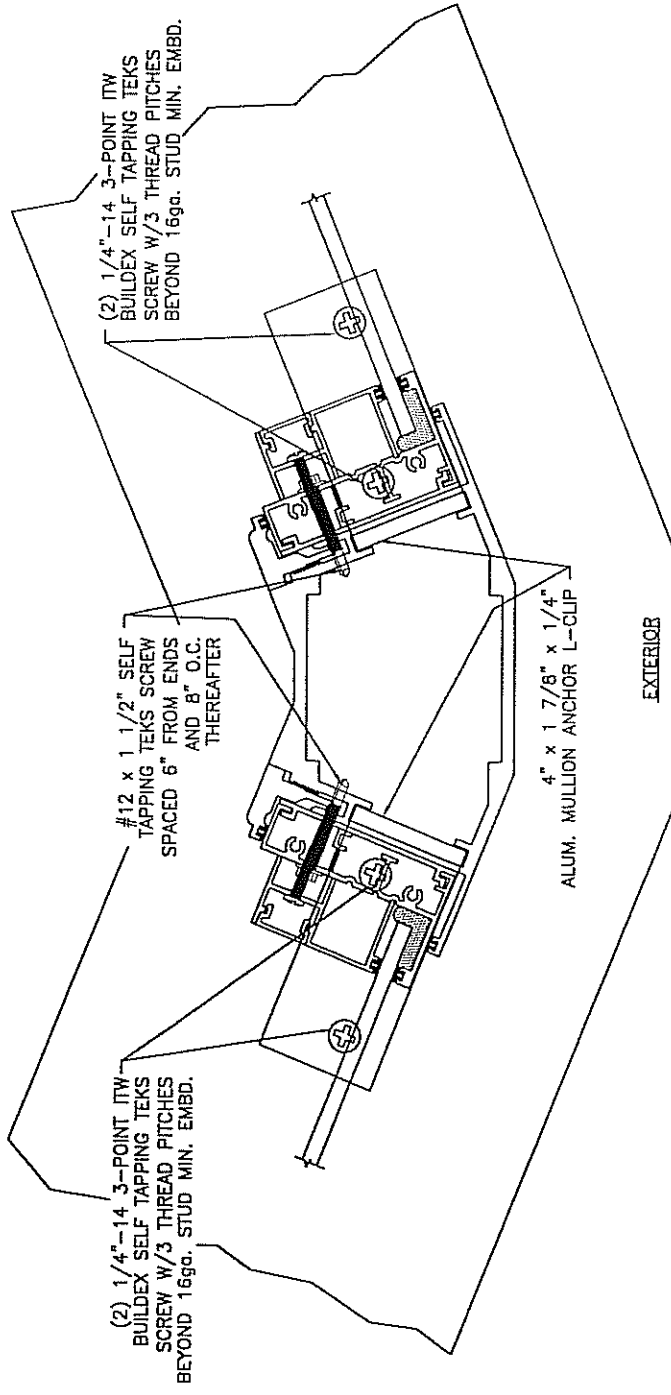
**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407-481-8400  
Fax: 407-481-0505  
www.windoorinc.com

Dwg Title:  
1000 SERIES - 135" MULLION INSTALLATION DETAIL  
WOOD FRAMING LOW DESIGN PRESSURE LOADS

SIZE: -  
Dwg No.: 06-01-1383  
REV: -

SCALE: N.T.S. DATE: 01/03/06 SHEET: 2 of 2



DESIGN PRESSURE, IN PSF, & COMPARATIVE ANALYSIS CHART

SINGLE WDW WITH MULL SPAN, Y	DESIGN PRESSURE, IN PSF, & COMPARATIVE ANALYSIS CHART										NON-IMPACT UNITS ONLY		
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	60.125	66.0	72.0	60.0	72.0	
60.0	180	180	180	180	180	180	180	180	180	180	180	200	200
66.0	180	180	180	180	180	180	180	180	180	180	180	200	200
72.0	180	180	180	180	180	180	180	180	180	180	180	200	200
78.0	180	180	180	180	180	180	180	180	180	180	180	200	200
84.0	180	180	180	180	180	180	180	180	180	180	180	200	200
90.0	180	180	180	180	180	180	180	180	180	180	180	200	200
96.0	180	180	180	180	180	180	180	180	180	180	180	200	200
102.0	180	180	180	180	180	180	180	180	180	180	180	200	200
108.0	180	180	180	180	180	180	180	180	180	180	180	200	200
114.0	180	180	180	180	180	180	180	180	180	180	180	200	200
120.0	180	180	180	180	180	180	180	180	180	180	180	200	200

- NOTES:
1. THE PRODUCT SHOWN HEREIN COMPLIES WITH THE 2004 FLORIDA BUILDING CODE. STEEL STUD FRAMING MUST BE DESIGNED PROPERLY TO TRANSFER ALL LOADS TO THE STRUCTURE. THE STEEL STUD FRAMING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
  2. THIS DRAWING APPLIES TO MULTIPLE WINDOWS IN A SINGLE OPENING. NO TWO WINDOW WIDTH IN A MULTIPLE CONFIGURATION CAN EXCEED 150.125". FOR MAXIMUM SINGLE WINDOW SIZE IN A MULLED CONFIGURATION SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT.
  3. THE DESIGN PRESSURES SHOWN IN THE CHART ARE ONLY FOR THE MULLION AND MULLION CLIP ANCHORS. SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT.
  4. DESIGN PRESSURES SHOWN IN THE CHART ARE BOTH POSITIVE AND NEGATIVE IN PSF.
  5. THIS DRAWING ONLY ADDRESSES THE ANCHORING OF THE MULLION L-CLIP TO THE SUBSTRATE AT THE HEAD AND SILL AND THE ANCHORING OF THE WINDOW JAMB TO THE MULLION. SEE DRAWINGS CALLED OUT IN NOTES 4 & 5 FOR THE HEAD, SILL AND JAMB ANCHORING OF EACH SINGLE WINDOW TO THE SUBSTRATE IN THE MULLED UNIT.
  6. WHEN A WOOD BACKER IS EMPLOYED IN THE STEEL FRAME MEMBER REPLACE THE 1/4"-14 3-POINT ITW BUILDEX SELF TAPPING TEKs SCREW WITH A #14 WOOD SCREW. SEE WinDoor DRAWING 06-01-1383 SHEETS 1 AND 2, WOOD FRAME INSTALLATION, FOR DESIGN PRESSURE AND COMPARATIVE ANALYSIS CHART AND ANCHORING.

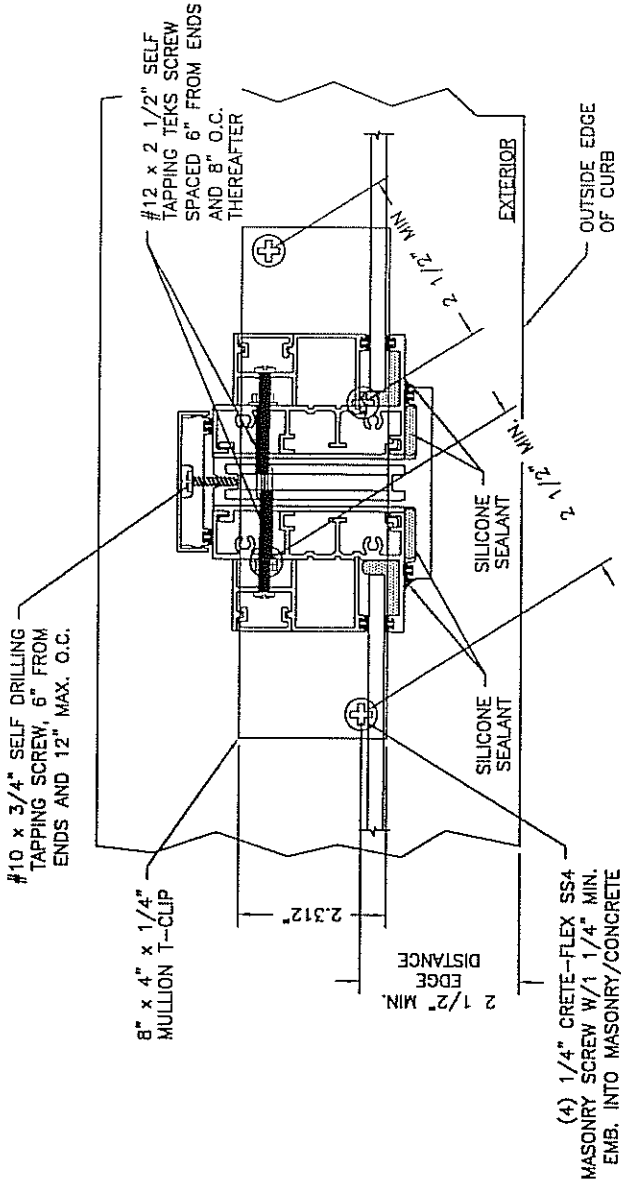
**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

Dwg Title:  
1000 SERIES - 135' MULLION INSTALLATION DETAIL  
STEEL FRAMING DESIGN PRESSURE LOADS

SIZE Dwn By: DWG NO. REV  
- TJH 06-01-1384 -

SCALE N.T.S. DATE: 01/03/06 SHEET 1 of 1



(4) 1/4" CRETE-FLEX SS4 MASONRY SCREW W/1 1/4" MIN. EMB. INTO MASONRY/CONCRETE

DESIGN PRESSURE, IN PSF, & COMPARATIVE ANALYSIS CHART

SINGLE WIDW. WITH MULL SPAN V	DESIGN PRESSURE, IN PSF						NON-IMPACT UNITS ONLY	
	24.0	30.0	36.0	42.0	48.0	54.0	60.125	72.0
60.0	180	180	180	180	180	180	180	180
66.0	180	180	180	180	180	180	175	174
72.0	180	180	180	177	165	158	150	147
78.0	180	180	176	158	146	138	132	
84.0	180	180	160	143	132	123	117	
90.0	180	169	146	131	120	111	105	
96.0	180	156	135	120	110	102	96	
102.0	176	145	125	111	101	93	86	
108.0	165	135	117	104	94	86	81	
114.0	155	128	110	97	88	80	75	
120.0	146	120	103	91	82	75	70	

- NOTES:
1. THE PRODUCT SHOWN HEREIN COMPLIES WITH THE 2004 FLORIDA BUILDING CODE.
  2. MASONRY OPENING MUST BE DESIGNED PROPERLY TO TRANSFER ALL LOADS TO THE STRUCTURE. THE MASONRY OPENING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
  3. THIS DRAWING APPLIES TO MULTIPLE WINDOWS IN A SINGLE OPENING. NO TWO WINDOW WIDTHS IN A MULTIPLE CONFIGURATION CAN EXCEED 144.75"
  4. FOR MAXIMUM SINGLE WINDOW SIZE IN A MULLED CONFIGURATION SEE WinDoor DRAWING WIND0075 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT.
  5. THE DESIGN PRESSURES SHOWN IN THE CHART ARE ONLY FOR THE MULLION AND MULLION CLIP ANCHORS. SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT.
  6. DESIGN PRESSURES SHOWN IN THE CHART ARE BOTH POSITIVE AND NEGATIVE IN PSF. THE DESIGN PRESSURES ARE BASED ON THE COMPARATIVE ANALYSIS OF THE MULLION AND ANCHOR CAPACITY.
  7. THIS DRAWING ONLY ADDRESSES THE ANCHORING OF THE MULLION T-CLIP TO THE SUBSTRATE AT THE HEAD AND SILL AND THE ANCHORING OF THE WINDOW JAMB TO THE MULLION. SEE DRAWINGS CALLED OUT IN NOTES 4 & 5 FOR THE HEAD, SILL AND JAMB ANCHORING OF EACH SINGLE WINDOW TO THE SUBSTRATE IN THE MULLED UNIT.

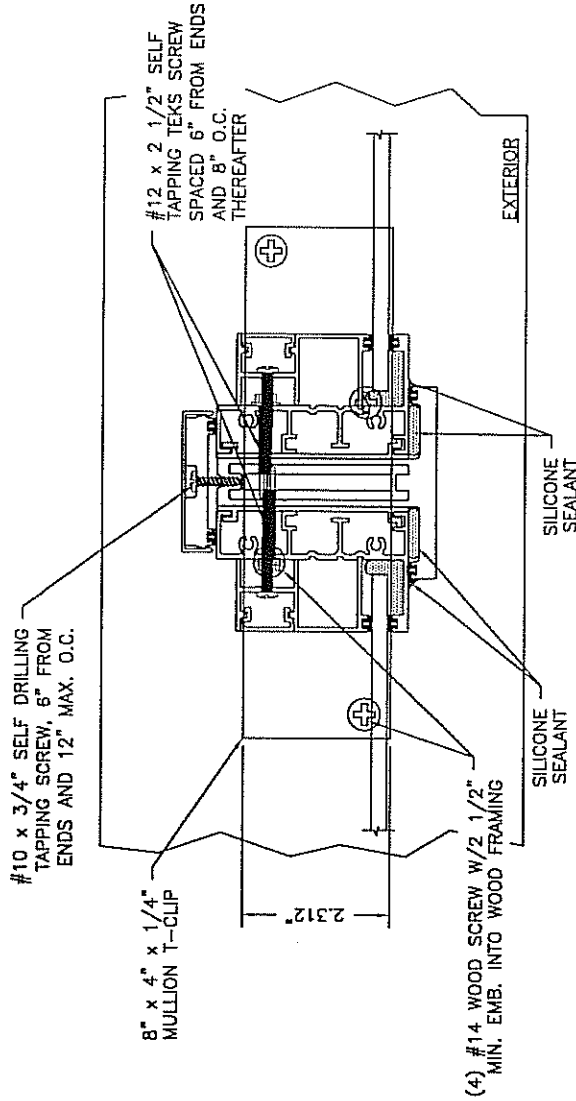
**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

Dwg Title:  
1000 SERIES - 180° MULLION INSTALLATION DETAIL  
MASONRY/CONCRETE DESIGN PRESSURE LOADS

SIZE Dwn By: DWG NO. 06-01-1379 REV - TJH -

SCALE N.T.S. DATE: 01/03/06 SHEET 1 of 1



DESIGN PRESSURE, IN PSF, & COMPARATIVE ANALYSIS CHART

SINGLE WIDTH WITH MULLION SPAN V	DESIGN PRESSURE, IN PSF										NON-IMPACT UNITS ONLY	
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0
60.0	180	180	180	180	180	180	180	180	180	180	180	200
66.0	180	180	180	180	180	180	180	180	180	180	180	200
72.0	180	180	180	180	180	180	180	180	180	180	180	200
78.0	180	180	180	180	180	180	180	180	180	180	180	171
84.0	180	180	180	180	180	180	180	180	180	180	180	170
90.0	180	180	180	180	180	180	180	180	180	180	180	170
96.0	180	180	180	180	180	180	180	180	180	180	180	170
102.0	180	180	180	180	180	180	180	180	180	180	180	170
108.0	180	180	180	180	180	180	180	180	180	180	180	170
114.0	180	180	180	180	180	180	180	180	180	180	180	170
120.0	180	180	180	180	180	180	180	180	180	180	180	170

- NOTES:
1. THE PRODUCT SHOWN HEREIN COMPLIES WITH THE 2004 FLORIDA BUILDING CODE.
  2. WOOD FRAMING MUST BE DESIGNED PROPERLY TO TRANSFER ALL LOADS TO THE STRUCTURE. THE WOOD FRAMING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
  3. THIS DRAWING APPLIES TO MULTIPLE WINDOWS IN A SINGLE OPENING, NO TWO WINDOW WIDTH IN A MULTIPLE CONFIGURATION CAN EXCEED 144.75".
  4. FOR MAXIMUM SINGLE WINDOW SIZE IN A MULLED CONFIGURATION SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT.
  5. DESIGN PRESSURES SHOWN IN THE CHART ARE BOTH POSITIVE AND NEGATIVE IN PSF. THE DESIGN PRESSURES ARE BASED ON THE COMPARATIVE ANALYSIS OF THE MULLION AND ANCHOR CAPACITY.
  6. THIS DRAWING ONLY ADDRESSES THE ANCHORING OF THE MULLION T-CLIP TO THE SUBSTRATE AT THE HEAD AND SILL AND THE ANCHORING OF THE WINDOW JAMB TO THE MULLION. SEE DRAWINGS CALLED OUT IN NOTES 4 & 5 FOR THE HEAD, SILL AND JAMB ANCHORING OF EACH SINGLE WINDOW TO THE SUBSTRATE IN THE MULLED UNIT.

**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832

Phone: 407.481.8400  
Fax: 407.481.0505

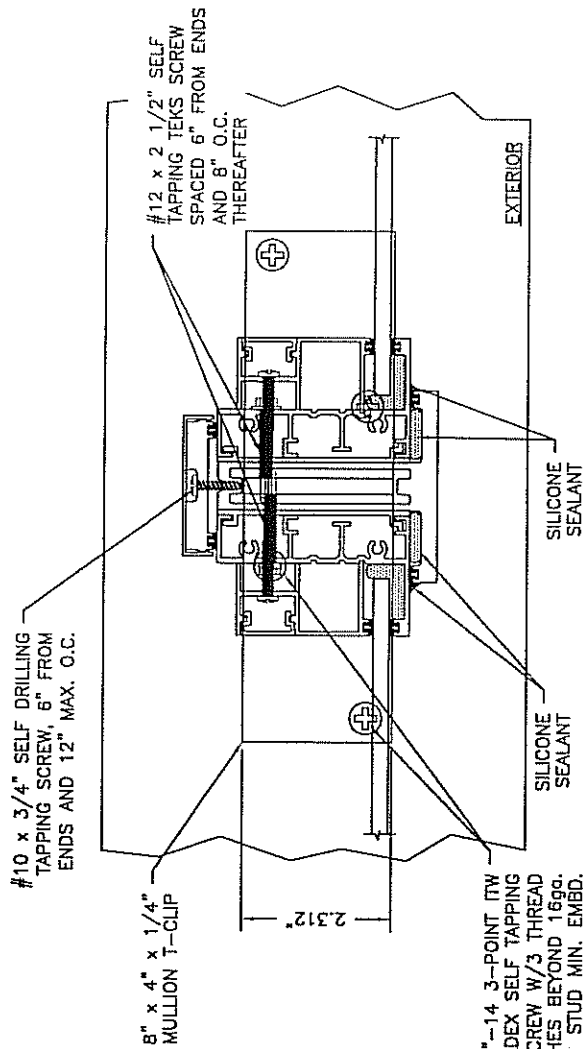
www.windoorinc.com

Dwg Title:

1000 SERIES - 180" MULLION INSTALLATION DETAIL  
WOOD FRAMING DESIGN PRESSURE LOADS

SIZE Drn By: DWG NO. 06-01-1380 REV -  
TJH

SCALE N.T.S. DATE: 01/03/06 SHEET 1 of 1



(4) 1/4"-14 3-POINT ITW BUILDDEX SELF TAPPING TEKS SCREW W/3 THREAD PITCHES BEYOND 16ga. STUD MIN. EMBD.

DESIGN PRESSURE, IN PSF, & COMPARATIVE ANALYSIS CHART

SINGLE WDW. WITH MULL SPAN V	DESIGN PRESSURE, IN PSF							NON-IMPACT UNITS ONLY		
	24.0	30.0	35.0	42.0	48.0	54.0	60.0	60.125	65.0	72.0
60.0	180	180	180	180	180	180	180	180	200	200
66.0	180	180	180	180	180	180	180	180	200	200
72.0	180	180	180	180	180	180	180	180	200	200
78.0	150	180	180	180	180	180	180	180	180	180
84.0	180	180	180	180	180	180	180	180	180	180
90.0	180	180	180	180	180	177	168			
96.0	180	180	180	180	169	157	148			
102.0	180	180	180	160	145	134	126			
108.0	160	174	149	132	120	111	103			
114.0	178	146	126	111	100	92	86			
120.0	151	124	107	94	85	78	72			

- NOTES:
1. THE PRODUCT SHOWN HEREIN COMPLIES WITH THE 2004 FLORIDA BUILDING CODE.
  2. STEEL STUD FRAMING MUST BE DESIGNED PROPERLY TO TRANSFER ALL LOADS TO THE STRUCTURE. THE STEEL STUD FRAMING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
  3. THIS DRAWING APPLIES TO MULTIPLE WINDOWS IN A SINGLE OPENING. NO TWO WINDOW WIDTH IN A MULTIPLE CONFIGURATION CAN EXCEED 144.75".
  4. FOR MAXIMUM SINGLE WINDOW SIZE IN A MULLED CONFIGURATION SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT.
  5. THE DESIGN PRESSURES SHOWN IN THE CHART ARE ONLY FOR THE MULLION AND MULLION CLIP ANCHORS. SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT.
  6. DESIGN PRESSURES SHOWN IN THE CHART ARE BOTH POSITIVE AND NEGATIVE IN PSF. THE DESIGN PRESSURES ARE BASED ON THE COMPARATIVE ANALYSIS OF THE MULLION AND ANCHOR CAPACITY.
  7. THIS DRAWING ONLY ADDRESSES THE ANCHORING OF THE MULLION T-CLIP TO THE SUBSTRATE AT THE HEAD AND SILL AND THE ANCHORING OF THE WINDOW JAMB TO THE MULLION. SEE DRAWINGS CALLED OUT IN NOTES 4 & 5 FOR THE HEAD, SILL AND JAMB ANCHORING OF EACH SINGLE WINDOW TO THE SUBSTRATE IN THE MULLED UNIT.
  8. WHEN A WOOD BACKER IS EMPLOYED IN THE STEEL FRAME MEMBER REPLACE THE 1/4"-14 3-POINT ITW BUILDDEX SELF TAPPING TEKS SCREW WITH A #14 WOOD SCREW. SEE WinDoor DRAWING 06-01-1380, WOOD FRAME INSTALLATION, FOR DESIGN PRESSURE AND COMPARATIVE ANALYSIS CHART AND ANCHORING.

**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832

Phone: 407.481.8400  
Fax: 407.481.0505

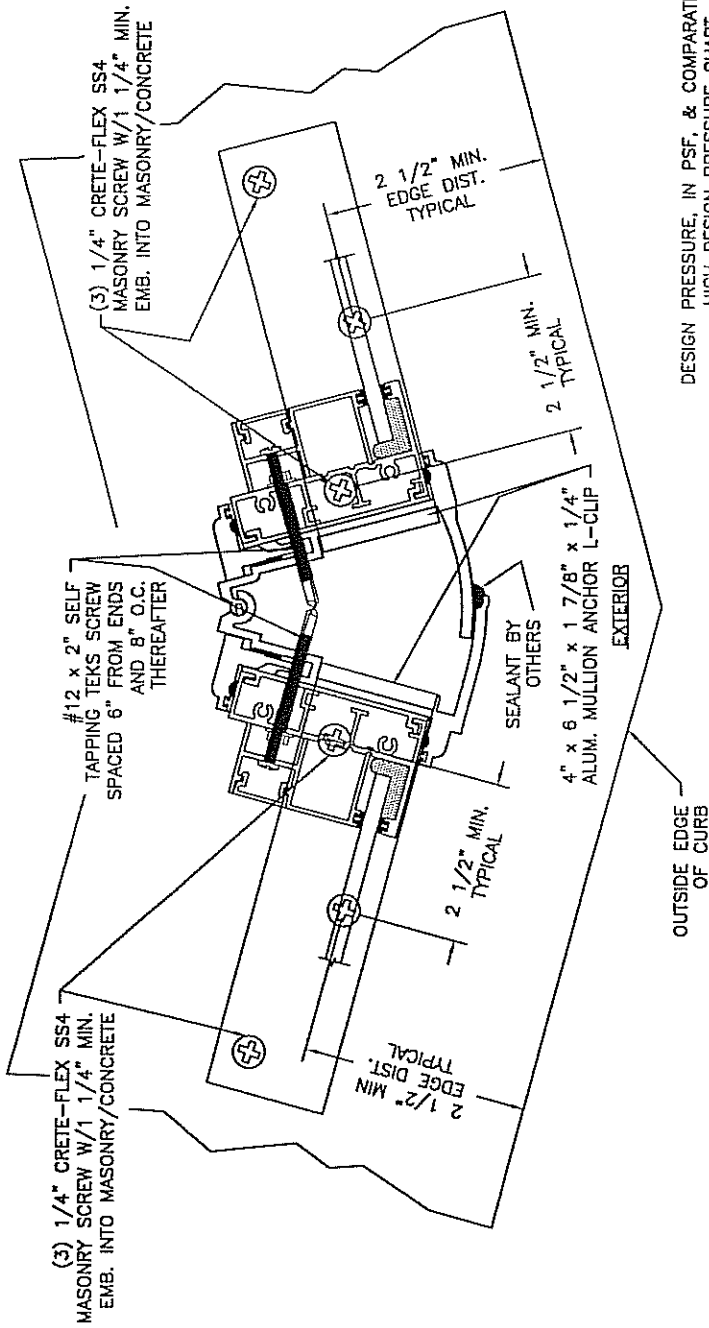
www.windoorinc.com

Dwg Title:

1000 SERIES - 180' MULLION INSTALLATION DETAIL  
STEEL FRAMING DESIGN PRESSURE LOADS

SIZE	Dwg No.	REV
-	DWG NO.	06-01-1381
Drn By:		
TJH		

SCALE	N.T.S.	DATE:	01/03/06	SHEET	1 of 1
-------	--------	-------	----------	-------	--------



DESIGN PRESSURE, IN PSF, & COMPARATIVE ANALYSIS CHART  
HIGH DESIGN PRESSURE CHART, SEE NOTE 7

SINGLE WIND. WITH MULL SPAN V	24 0	30 0	35 0	42 0	48 0	54 0	60 0	60.125	66 0	72 0
60.0										
66.0									160	200
72.0				190	180	180	180	180	180	200
78.0				180	180	180	180	176		
84.0				180	180	180	167	158		
90.0				180	180	180	165	144		
96.0				180	180	180	153	144		
102.0				180	177	157	143	124		
108.0				180	156	138	125	115	108	
114.0				180	161	139	123	102	95	
120.0				176	144	124	109	90	84	

- NOTES:
- THE PRODUCT SHOWN HEREIN COMPLIES WITH THE 2004 FLORIDA BUILDING CODE. MASONRY OPENING MUST BE DESIGNED PROPERLY TO TRANSFER ALL LOADS TO THE STRUCTURE. THE MASONRY OPENING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
  - THIS DRAWING APPLIES TO MULTIPLE WINDOWS IN A SINGLE OPENING. NO TWO WINDOW WIDTH IN A MULTIPLE CONFIGURATION CAN EXCEED 147.5".
  - FOR MAXIMUM SINGLE WINDOW SIZE IN A MULLED CONFIGURATION SEE WinDoor DRAWING WIND0074 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT.
  - THE DESIGN PRESSURES SHOWN IN THE CHART ARE ONLY FOR THE MULLION AND MULLION CLIP ANCHORS. SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT. DESIGN PRESSURES SHOWN IN THE CHART ARE BOTH POSITIVE AND NEGATIVE IN PSF.
  - DESIGN PRESSURES IN THE CHART ARE BASED ON USING (B) ELCO CRETE-FLEX SS4 MASONRY SCREWS ATTACHING THE MULL CLIPS TO THE SUBSTRATE AT EACH END OF THE MULLION. THE DESIGN PRESSURES ARE BASED ON THE COMPARATIVE ANALYSIS OF THE MULLION AND ANCHOR CAPACITY. FOR LOWER DESIGN PRESSURES AND (4) ANCHORS ATTACHING THE MULL CLIPS SEE DRAWING 06-01-1385 SHEET 2.
  - IF THE WINDOW SIZE THAT YOU ARE USING IN THE CHART DOES NOT HAVE A DESIGN PRESSURE IN IT, SEE DRAWING 06-01-1385 SHEET 2 FOR DESIGN PRESSURE.
  - THIS DRAWING ONLY ADDRESSES THE ANCHORING OF THE MULLION L-CLIP TO THE SUBSTRATE AT THE HEAD AND SILL AND THE ANCHORING OF THE WINDOW JAMB TO THE MULLION. SEE DRAWINGS CALLED OUT IN NOTES 4 & 5 FOR THE HEAD, SILL AND JAMB ANCHORING OF EACH SINGLE WINDOW TO THE SUBSTRATE IN THE MULLED UNIT.

WinDoor  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832

Phone: 407.481.8400

Fax: 407.481.0505

www.windoorinc.com

Dwg Title:

1000 SERIES - 12.5' - 30' ADJ. MULL INSTAL. DETAIL  
MASONRY/CONCRETE HIGH DESIGN PRESSURE LOADS

SIZE Drn By:

-

TJH

DWG NO.

06-01-1385

REV

-

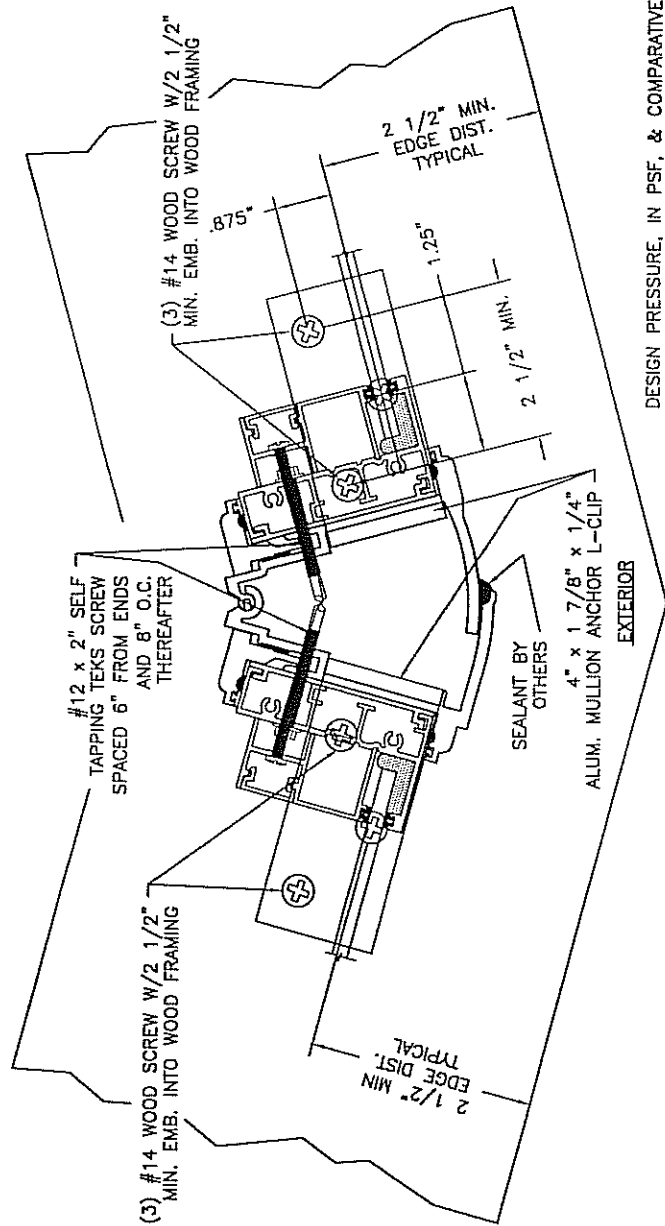
SCALE N.T.S.

DATE: 01/03/06

SHEET

1 of 2





DESIGN PRESSURE, IN PSF, & COMPARATIVE ANALYSIS CHART  
HIGH DESIGN PRESSURE CHART, SEE NOTE 7

SINGLE VIEW WITH MULL SPAN V	24.0	30.0	35.0	42.0	48.0	54.0	60.0	NON-IMPACT UNITS ONLY
60.0							60.0	72.0
86.0								
72.0								
78.0					180	180	160	200
90.0				160	180	180	160	
94.0				160	180	178	160	
95.0				150	180	153	141	
102.0				177	157	143	124	
108.0				150	136	125	108	
114.0				151	139	123	111	
120.0				144	124	99	84	

- NOTES:
1. THE PRODUCT SHOWN HEREIN COMPLIES WITH THE 2004 FLORIDA BUILDING CODE.
  2. WOOD FRAMING MUST BE DESIGNED PROPERLY TO TRANSFER ALL LOADS TO THE STRUCTURE. THE WOOD FRAMING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
  3. THIS DRAWING APPLIES TO MULTIPLE WINDOWS IN A SINGLE OPENING. NO TWO WINDOW WIDTH IN A MULTIPLE CONFIGURATION CAN EXCEED 147.5".
  4. FOR MAXIMUM SINGLE WINDOW SIZE IN A MULLED CONFIGURATION SEE WinDoor DRAWING WIND0082 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT.
  5. THE DESIGN PRESSURES SHOWN IN THE CHART ARE ONLY FOR THE MULLION AND MULLION CLIP ANCHORS. SEE WinDoor DRAWING WIND0082 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT.
  6. DESIGN PRESSURES SHOWN IN THE CHART ARE BOTH POSITIVE AND NEGATIVE IN PSF.
  7. DESIGN PRESSURES IN THE CHART ARE BASED ON USING (6) WOOD SCREWS ATTACHING THE MULL CLIPS TO THE SUBSTRATE AT EACH END OF THE MULLION. THE DESIGN PRESSURES ARE BASED ON THE COMPARATIVE ANALYSIS OF THE MULLION AND ANCHOR CAPACITY. FOR LOWER DESIGN PRESSURES AND (4) ANCHORS ATTACHING THE MULL CLIPS SEE DRAWING 06-01-1386 SHEET 2. IF THE WINDOW SIZE THAT YOU ARE USING IN THE CHART ABOVE DOES NOT HAVE A DESIGN PRESSURE IN IT, SEE DRAWING 06-01-1386 SHEET 2 FOR DESIGN PRESSURE.
  8. THIS DRAWING ONLY ADDRESSES THE ANCHORING OF THE MULLION L-CLIP TO THE SUBSTRATE AT THE HEAD AND SILL AND THE ANCHORING OF THE WINDOW JAMB TO THE MULLION. SEE DRAWINGS CALLED OUT IN NOTES 4 & 5 FOR THE HEAD, SILL AND JAMB ANCHORING OF EACH SINGLE WINDOW TO THE SUBSTRATE IN THE MULLED UNIT.

**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832

Phone: 407.481.8400  
Fax: 407.481.0505

www.windowinc.com

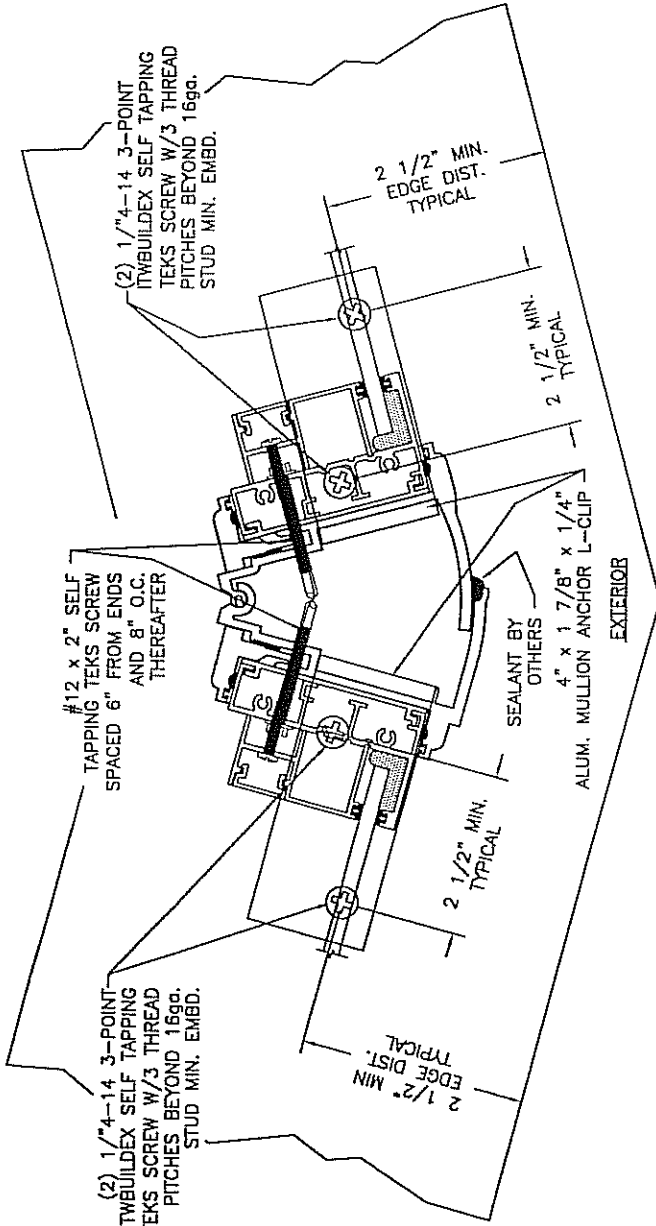
Dwg Title:

1000 SERIES - 12.5" - 30" ADJ. MULL INSTAL. DETAIL  
WOOD FRAMING HIGH DESIGN PRESSURE LOADS

SIZE Dwg No. 06-01-1386  
By: TJH

SCALE N.T.S. DATE: 01/03/06 SHEET 1 of 2





DESIGN PRESSURE, IN PSF, & COMPARATIVE ANALYSIS CHART

SINGLE WDR WTH MULL SPAN V	DESIGN PRESSURE, IN PSF							NON-IMPACT UNITS ONLY	
	24.0	30.0	35.0	42.0	48.0	54.0	60.0	60.125	72.0
60.0	180	180	180	180	180	180	180	200	200
65.0	180	180	180	180	180	180	180	200	200
72.0	180	180	180	180	180	180	180	200	200
78.0	180	180	180	180	180	180	180	200	200
84.0	180	180	180	180	180	180	180	200	200
90.0	180	180	180	180	180	177	180	180	180
95.0	180	180	180	180	180	185	180	180	180
102.0	180	180	177	157	143	132	124	124	124
108.0	180	180	156	136	125	115	108	108	108
114.0	180	180	139	123	111	102	95	95	95
120.0	176	144	124	108	99	90	84	84	84

- NOTES:
1. THE PRODUCT SHOWN HEREIN COMPLIES WITH THE 2004 FLORIDA BUILDING CODE.
  2. STEEL FRAMING MUST BE DESIGNED PROPERLY TO TRANSFER ALL LOADS TO THE STRUCTURE. THE STEEL FRAMING IS RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.
  3. THIS DRAWING APPLIES TO MULTIPLE WINDOWS IN A SINGLE OPENING. NO TWO WINDOW WIDTH IN A MULTIPLE CONFIGURATION CAN EXCEED 147.5"
  4. FOR MAXIMUM SINGLE WINDOW SIZE IN A MULLED CONFIGURATION SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT.
  5. THE DESIGN PRESSURES SHOWN IN THE CHART ARE ONLY FOR THE MULLION AND MULLION CLIP ANCHORS. SEE WinDoor DRAWING WIND0092 SHEETS 1-7 OF 7, NON-IMPACT, WinDoor DRAWING WIND0074 SHEETS 1-12 OF 12 FOR LARGE MISSILE IMPACT AND WinDoor DRAWING WIND0075 SHEETS 1-12 OF 12 FOR SMALL MISSILE IMPACT. THE LOWER DESIGN PRESSURE OF THE WINDOW OR THE MULLION WILL GOVERN THE DESIGN PRESSURE FOR THE MULLED UNIT.
  6. DESIGN PRESSURES SHOWN IN THE CHART ARE BOTH POSITIVE AND NEGATIVE IN PSF.
  7. THIS DRAWING ONLY ADDRESSES THE ANCHORING OF THE MULLION L-CLIP TO THE SUBSTRATE AT THE HEAD AND SILL AND THE ANCHORING OF THE WINDOW JAMB TO THE MULLION. SEE DRAWINGS CALLED OUT IN NOTES 4 & 5 FOR THE HEAD, SILL AND JAMB ANCHORING OF EACH SINGLE WINDOW TO THE SUBSTRATE IN THE MULLED UNIT.
  8. WHEN A WOOD BACKER IS EMPLOYED IN THE STEEL FRAME MEMBER REPLACE THE 1/4"-14 3-POINT ITWBUILD EX SELF TAPPING TEK S CREW WITH A #14 WOOD SCREW. SEE WinDoor DRAWING 06-01-1386 SHEETS 1 AND 2, WOOD FRAME INSTALLATION, FOR DESIGN PRESSURE AND COMPARATIVE ANALYSIS CHART AND ANCHORING.

**WinDoor**  
**INCORPORATED**  
 7500 AMSTERDAM DRIVE  
 ORLANDO, FL 32832  
 Phone: 407.481.8400  
 Fax: 407.481.0505  
 www.windoorinc.com

Dwg Title:  
 1000 SERIES - 12.5" - 30" ADJ. MULL INSTAL. DETAIL  
 STEEL FRAMING DESIGN PRESSURE LOADS

SIZE: Dm By: DWG NO. REV  
 - - TJH 06-01-1387 -

SCALE: N.T.S. DATE: 01/03/06 SHEET 1 of 1