

ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

NRAP FIXED WINDOW WALL SYSTEM SERIES 6000

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT.
 MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS
 REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
 SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.
 CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
 REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING
 HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER
 LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS
 EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS
 ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF
 ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO
 CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS
 OF 2004 FLORIDA BLDG. CODE SECTION 2003.8.4.

TYPICAL ELEVATIONS

INSTRUCTIONS:

- USE CHARTS AS FOLLOWS.
- STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3 CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3 & 4 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4 USING CHARTS ON SHEET 5 & 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

**LAMINATED GLASS
 SMALL MISSILE IMPACT**

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538

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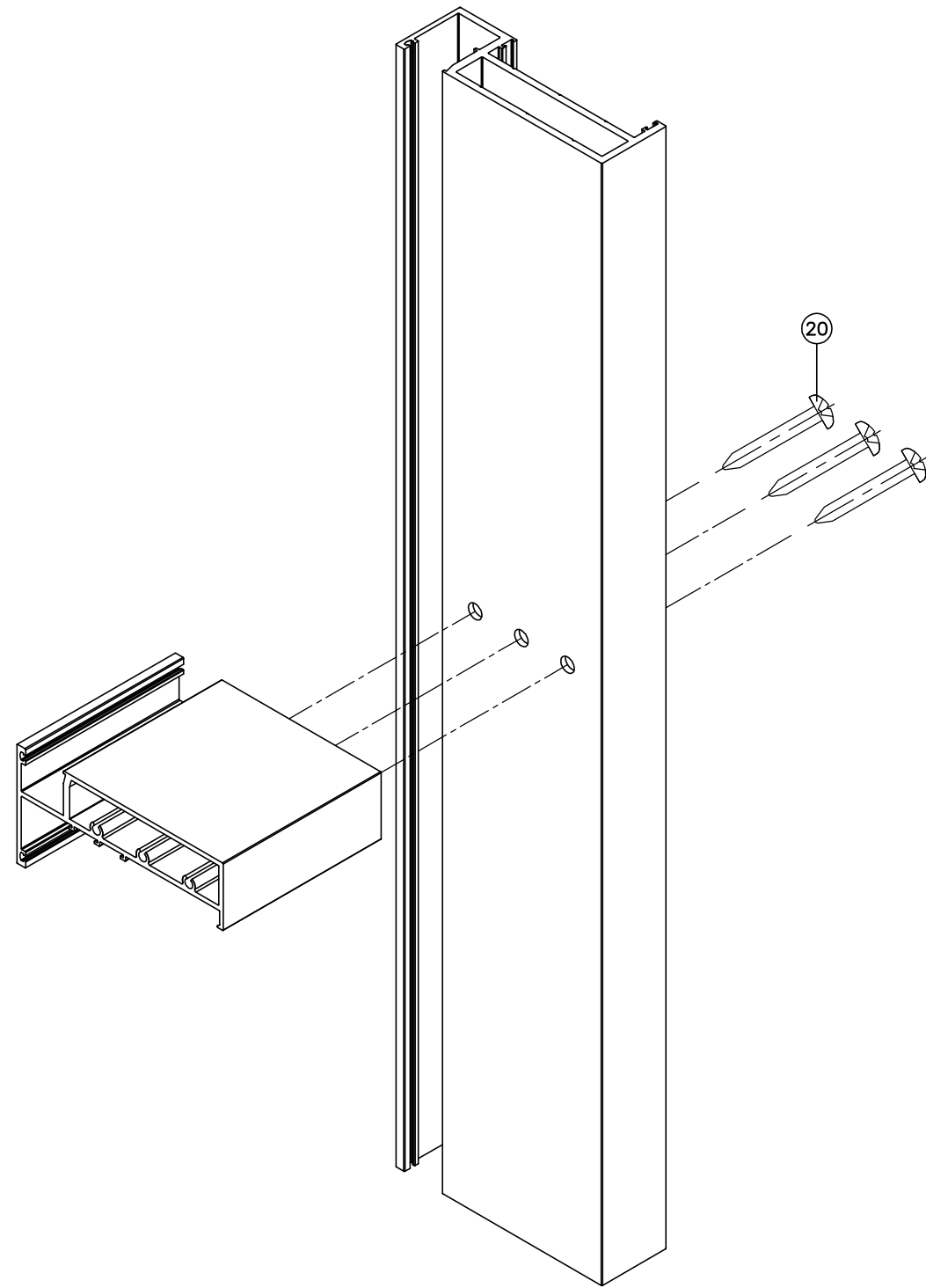
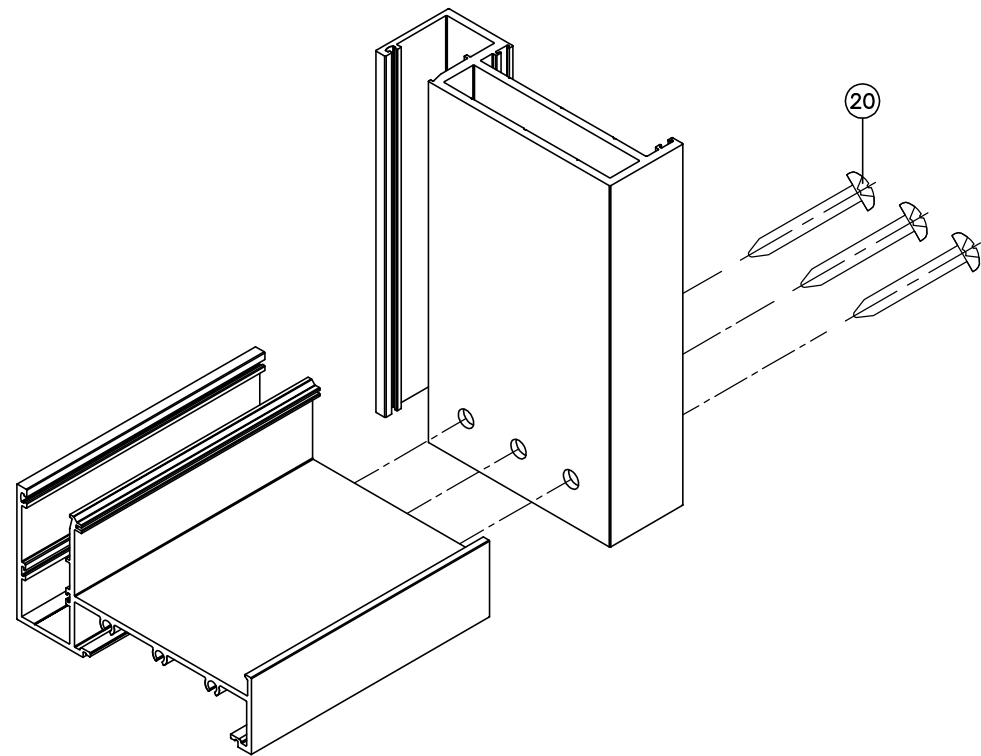
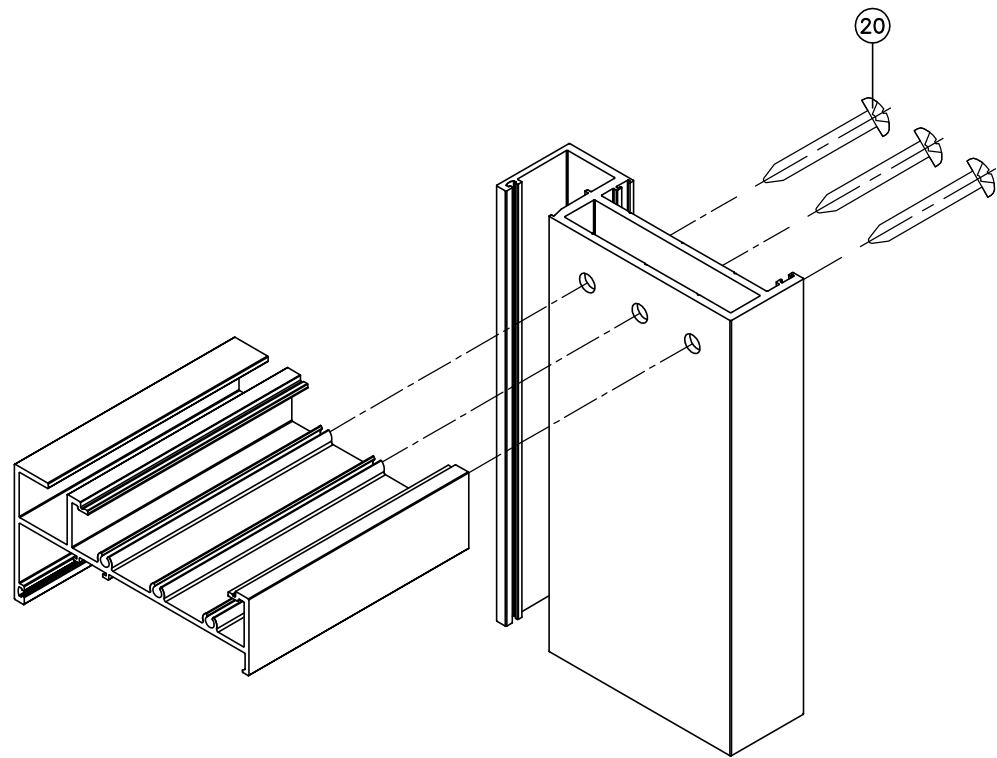
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
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NRAP FIXED WINDOW WALL SYS. SERIES 6000 (S.M.I.)
NR ARCHITECTURAL PRODUCTS
 4348 WESTROADS DRIVE
 WEST PALM BEACH, FL. 33407
 TEL. (561) 844-1121 FAX. (561) 844-6131

no	date	description

revisions:
 no date by description

date: 08-27-07
 scale: 1/2"=1'-0"
 dr. by: HAMID
 chk. by:
 drawing no. **W07-77**
 sheet 1 of 10



FRAME CORNERS

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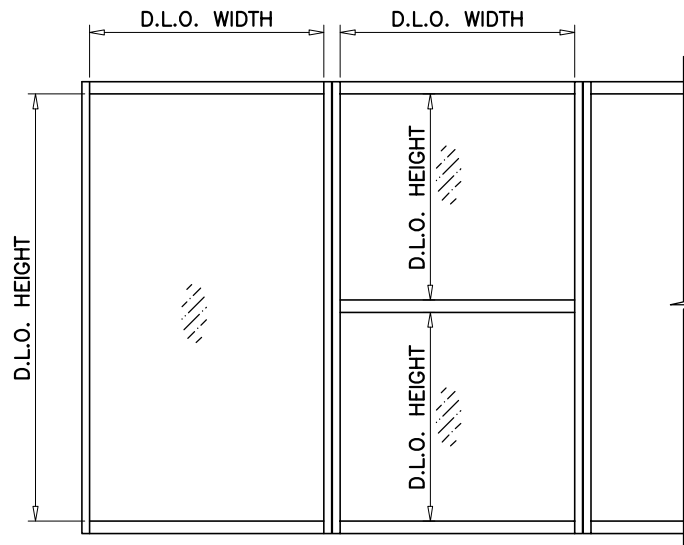
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dr. by: HAMID
chk. by:

drawing no.
W07-77

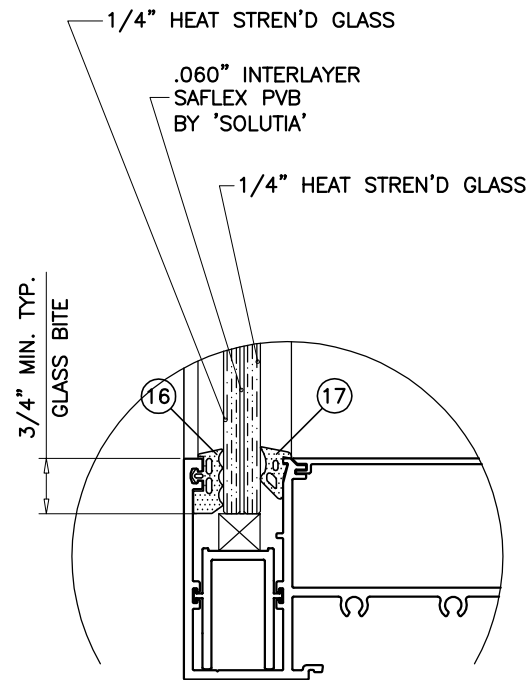
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STORE\W07-77NR

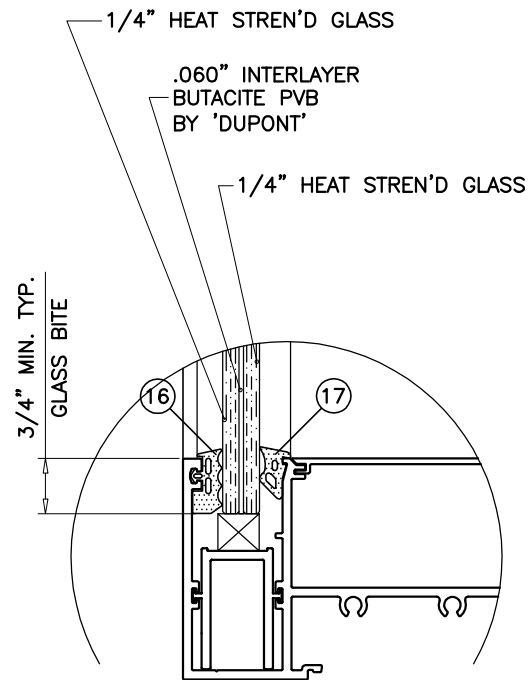
GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		LAM. GLASS
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)
32-1/4"	78"	140.0
38-1/4"		140.0
44-1/4"		140.0
50-1/4"		140.0
56-1/4"		140.0
62-1/4"		137.5
68-1/4"	133.7	
32-1/4"	84"	140.0
38-1/4"		140.0
44-1/4"		140.0
50-1/4"		140.0
56-1/4"		136.6
62-1/4"		132.5
68-1/4"	124.4	
32-1/4"	90"	140.0
38-1/4"		140.0
44-1/4"		140.0
50-1/4"		139.0
56-1/4"		131.9
62-1/4"		122.9
68-1/4"	115.2	
32-1/4"	96"	140.0
38-1/4"		140.0
44-1/4"		140.0
50-1/4"		131.2
56-1/4"		122.7
62-1/4"		113.7
68-1/4"	106.7	
32-1/4"	102"	140.0
38-1/4"		140.0
44-1/4"		139.5
50-1/4"		126.5
56-1/4"		114.7
62-1/4"		106.7
68-1/4"	100.9	
32-1/4"	108"	140.0
38-1/4"		140.0
44-1/4"		133.3
50-1/4"		119.4
56-1/4"		107.6
62-1/4"		100.9
68-1/4"	94.1	
32-1/4"	113"	140.0
38-1/4"		140.0
44-1/4"		128.9
50-1/4"		114.4
56-1/4"		102.5
62-1/4"		94.1
68-1/4"	87.3	
32-1/4"	120"	140.0
38-1/4"		140.0
44-1/4"		126.3
32-1/4"	125"	140.0
38-1/4"		140.0
44-1/4"		122.4



D.L.O. WIDTH = PANEL WIDTH - 3.75"
D.L.O. HEIGHT = PANEL HEIGHT - 6.0"



GLASS TYPE 'A'



GLASS TYPE 'B'

GLAZING OPTIONS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-02 (3 SEC. GUSTS).

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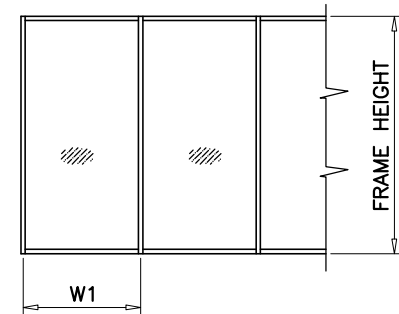
drawing no.
W07-77

sheet 2 of 10

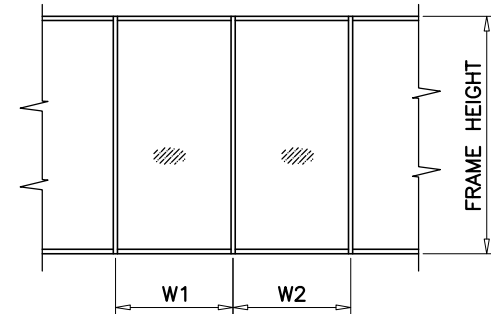
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MULLION LOAD CAPACITY - PSF
MULLIONS WITHOUT INTERMEDIATE HORIZONTALS

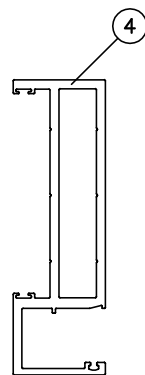
NOMINAL DIMS.		JAMB 'J1'		MULL 'M1'		MULL 'M2'		JAMB 'J2'		MULL 'M4'		JAMB 'J3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	84"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
66"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
72"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
36"	90"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
66"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
72"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
36"	96"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
66"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
72"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
36"	102"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
66"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	132.8
72"		120.0	138.4	120.0	138.4	120.0	138.4	120.0	138.4	100.8	100.8	120.0	125.6
36"	108"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	134.7
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	123.8
66"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	115.4	115.4
72"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
36"	114"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	131.4
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	118.8	118.8
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	108.9	108.9
36"	119"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	134.5
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	119.2	119.2
54"		120.0	139.9	120.0	139.9	120.0	140.0	120.0	140.0	102.0	102.0	107.6	107.6
60"		120.0	128.1	120.0	128.1	120.0	135.9	120.0	140.0	102.0	102.0	98.5	98.5
61"		120.0	126.4	120.0	126.4	120.0	134.0	120.0	140.0	102.0	102.0	97.2	97.2
36"	126"	102.0	120.0	-	-	102.0	120.0	-	-	-	-	-	-
42"		102.0	120.0	-	-	102.0	120.0	-	-	-	-	-	-
48"		102.0	108.7	-	-	102.0	108.7	-	-	-	-	-	-
36"	131"	102.0	120.0	-	-	102.0	120.0	-	-	-	-	-	-
42"		102.0	115.2	-	-	102.0	115.2	-	-	-	-	-	-
48"		102.0	103.6	-	-	102.0	103.6	-	-	-	-	-	-



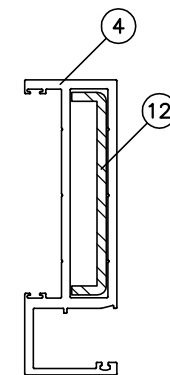
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AT FRAME JAMB



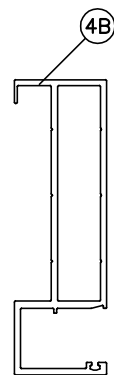
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AT FRAME MULLION



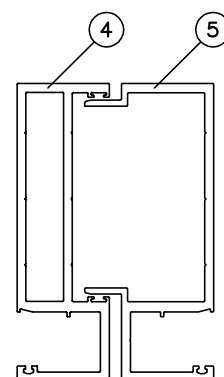
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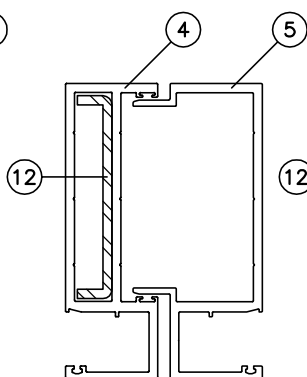
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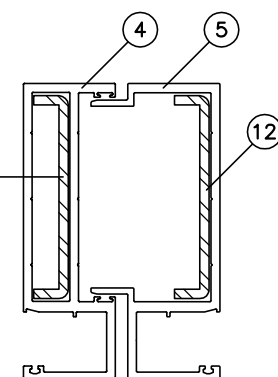
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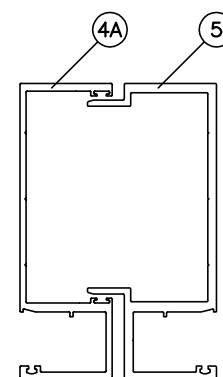
MULLION 'M1'



MULLION 'M2'



MULLION 'M3'



MULLION 'M4'

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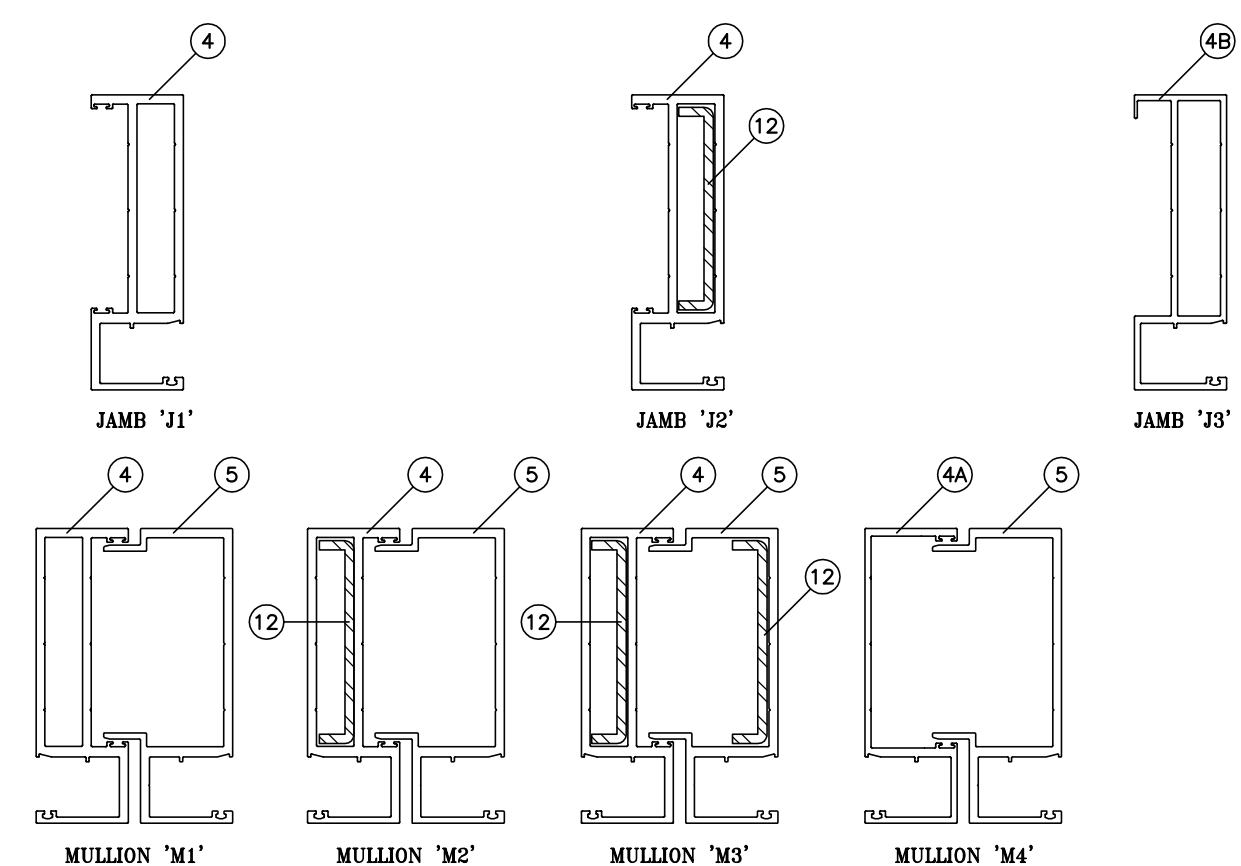
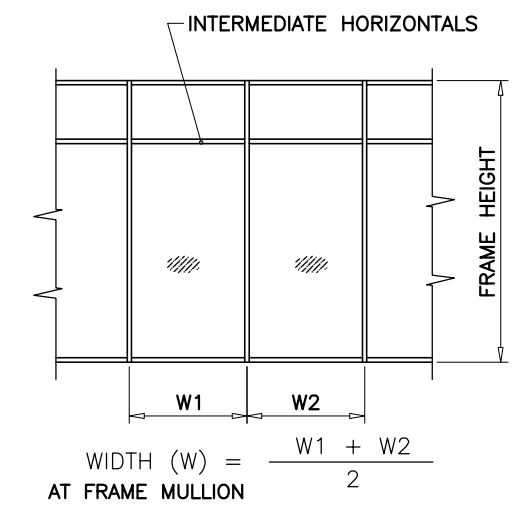
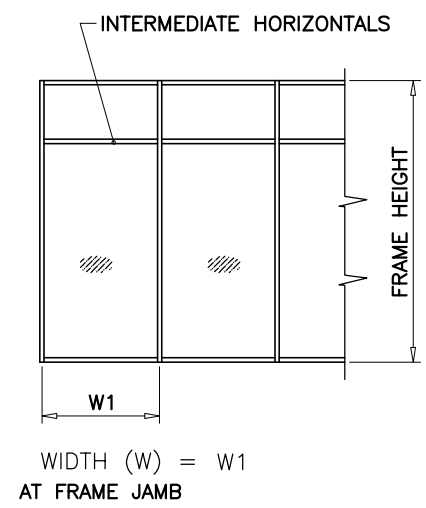
W07-77

sheet 3 of 10


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MULLION LOAD CAPACITY - PSF
MULLIONS WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'J1'		MULL 'M1'		MULL 'M2'		JAMB 'J2'		MULL 'M4'		JAMB 'J3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	84"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
66"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
72"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
36"	90"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
66"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
72"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
36"	96"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
66"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	134.6
72"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	123.3
36"	102"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	129.9
66"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	118.1	118.1
72"		120.0	138.4	120.0	138.4	120.0	138.4	120.0	140.0	100.8	100.8	108.2	108.2
36"	108"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	127.5
60"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	114.8	114.8
66"		120.0	135.0	120.0	135.0	120.0	137.5	120.0	140.0	102.0	102.0	104.4	104.4
72"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
36"	114"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	127.6
54"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	113.4	113.4
60"		120.0	132.2	120.0	132.2	120.0	135.8	120.0	140.0	102.0	102.0	102.1	102.1
36"	119"	120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	140.0
42"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	120.0	132.9
48"		120.0	140.0	120.0	140.0	120.0	140.0	120.0	140.0	102.0	102.0	116.3	116.3
54"		120.0	134.0	120.0	134.0	120.0	138.5	120.0	140.0	102.0	102.0	103.4	103.4
60"		120.0	120.6	120.0	120.6	120.0	124.6	120.0	140.0	98.8	98.8	93.0	93.0
61"		118.6	118.6	118.6	118.6	120.0	122.6	120.0	140.0	97.2	97.2	91.5	91.5
36"	126"	102.0	117.3	-	-	102.0	117.3	-	-	-	-	-	-
42"		100.6	100.6	-	-	100.6	100.6	-	-	-	-	-	-
48"		88.0	88.0	-	-	88.0	88.0	-	-	-	-	-	-
36"	131"	102.0	112.9	-	-	102.0	112.9	-	-	-	-	-	-
42"		96.7	96.7	-	-	96.7	96.7	-	-	-	-	-	-
48"		84.7	84.7	-	-	84.7	84.7	-	-	-	-	-	-



Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE\W07-77NR

NRAP FIXED WINDOW WALL SYS. SERIES 6000 (S.M.I.)
NR ARCHITECTURAL PRODUCTS
4-348 WESTROADS DRIVE
WEST PALM BEACH, FL. 33407
TEL. (561) 844-1121 FAX. (561) 844-6131

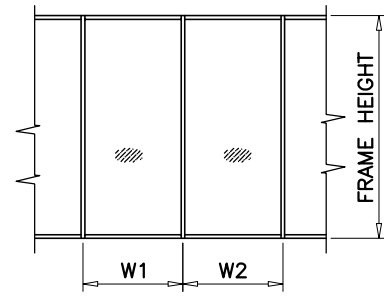
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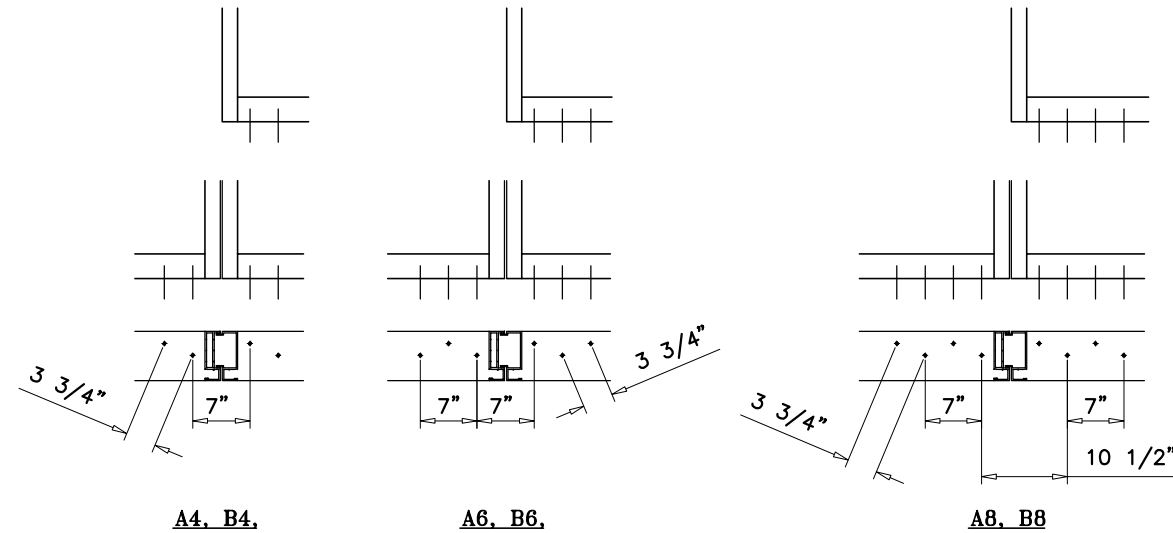
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W07-77
sheet 4 of 10

**ANCHOR LOAD CAPACITY – PSF
MULLIONS WITHOUT INTERMEDIATE HORIZONTALS
EXT.(+) & INT.(–)**

NOMINAL DIMS.		1/4" MAX. SHIM SPACE			1/2" MAX. SHIM SPACE			1/4" MAX. SHIM SPACE		
		ANCHORS TYPE 'A'			ANCHORS TYPE 'A'			ANCHORS TYPE 'B'		
WIDTH (W)	FRAME HEIGHT	A4	A6	A8	A4	A6	A8	B4	B6	B8
36"	84"	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
54"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
60"		140.0	140.0	140.0	135.1	140.0	140.0	140.0	140.0	140.0
66"		140.0	140.0	140.0	130.1	140.0	140.0	135.2	140.0	140.0
72"		140.0	140.0	140.0	126.7	140.0	140.0	131.7	140.0	140.0
36"	90"	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48"		140.0	140.0	140.0	138.2	140.0	140.0	140.0	140.0	140.0
54"		140.0	140.0	140.0	128.7	140.0	140.0	133.8	140.0	140.0
60"		138.2	140.0	140.0	121.6	140.0	140.0	126.4	140.0	140.0
66"		132.3	140.0	140.0	116.4	140.0	140.0	121.0	140.0	140.0
72"		128.0	140.0	140.0	112.6	140.0	140.0	117.0	140.0	140.0
36"	96"	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42"		140.0	140.0	140.0	139.0	140.0	140.0	140.0	140.0	140.0
48"		140.0	140.0	140.0	126.7	140.0	140.0	131.7	140.0	140.0
54"		133.6	140.0	140.0	117.5	140.0	140.0	122.1	140.0	140.0
60"		125.7	140.0	140.0	110.5	140.0	140.0	114.9	140.0	140.0
66"		119.7	140.0	140.0	105.3	140.0	140.0	109.4	140.0	140.0
72"		115.2	140.0	140.0	101.3	140.0	140.0	105.3	140.0	140.0
36"	102"	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42"		140.0	140.0	140.0	128.7	140.0	140.0	133.8	140.0	140.0
48"		132.9	140.0	140.0	116.9	140.0	140.0	121.5	140.0	140.0
54"		122.9	140.0	140.0	108.1	140.0	140.0	112.4	140.0	140.0
60"		115.2	140.0	140.0	101.3	140.0	140.0	105.3	140.0	140.0
66"		109.3	140.0	140.0	96.1	140.0	140.0	99.9	140.0	140.0
72"		104.7	140.0	140.0	92.1	138.2	140.0	95.8	140.0	140.0
36"	108"	140.0	140.0	140.0	135.1	140.0	140.0	140.0	140.0	140.0
42"		136.2	140.0	140.0	119.8	140.0	140.0	124.5	140.0	140.0
48"		123.4	140.0	140.0	108.6	140.0	140.0	112.9	140.0	140.0
54"		113.8	140.0	140.0	100.1	140.0	140.0	104.0	140.0	140.0
60"		106.3	140.0	140.0	93.5	140.0	140.0	97.2	140.0	140.0
66"		100.5	140.0	140.0	88.4	132.7	140.0	91.9	137.9	140.0
36"		114"	140.0	140.0	140.0	126.7	140.0	140.0	131.7	140.0
42"	127.4		140.0	140.0	112.1	140.0	140.0	116.5	140.0	140.0
48"	115.2		140.0	140.0	101.3	140.0	140.0	105.3	140.0	140.0
54"	105.9		140.0	140.0	93.2	139.8	140.0	96.9	140.0	140.0
60"	98.7		140.0	140.0	86.9	130.3	140.0	90.3	135.4	140.0
61"	97.7		140.0	140.0	85.9	128.9	140.0	89.3	134.0	140.0
36"	119"		136.9	140.0	140.0	120.4	140.0	140.0	125.1	140.0
42"		120.9	140.0	140.0	106.4	140.0	140.0	110.6	140.0	140.0
48"		109.1	140.0	140.0	96.0	140.0	140.0	99.8	140.0	140.0
54"		100.2	140.0	140.0	88.1	132.2	140.0	91.6	137.4	140.0
60"		93.2	139.8	140.0	82.0	123.0	140.0	85.2	127.8	140.0
61"		92.2	138.3	140.0	81.1	121.6	140.0	84.3	126.4	140.0
36"	126"	120.0	120.0	120.0	112.6	120.0	120.0	117.0	120.0	120.0
42"		112.8	120.0	120.0	99.3	120.0	120.0	103.2	120.0	120.0
48"		101.6	120.0	120.0	89.4	120.0	120.0	92.9	120.0	120.0
36"	131"	120.0	120.0	120.0	107.6	120.0	120.0	111.9	120.0	120.0
42"		107.7	120.0	120.0	94.8	120.0	120.0	98.5	120.0	120.0
48"		96.9	120.0	120.0	85.2	120.0	120.0	88.6	120.0	120.0



$$\text{WIDTH (W)} = \frac{W1 + W2}{2} \text{ (MULLION)}$$

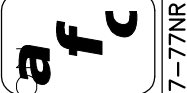


ANCHORS TYPES: SEE SHEET 7 FOR DESCRIPTION

- A4 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB & MULLION
- B4 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB & MULLION
- A6 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB & MULLION
- B6 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB & MULLION
- A8 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB & MULLION
- B8 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB & MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
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ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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revisions:	no	date	description

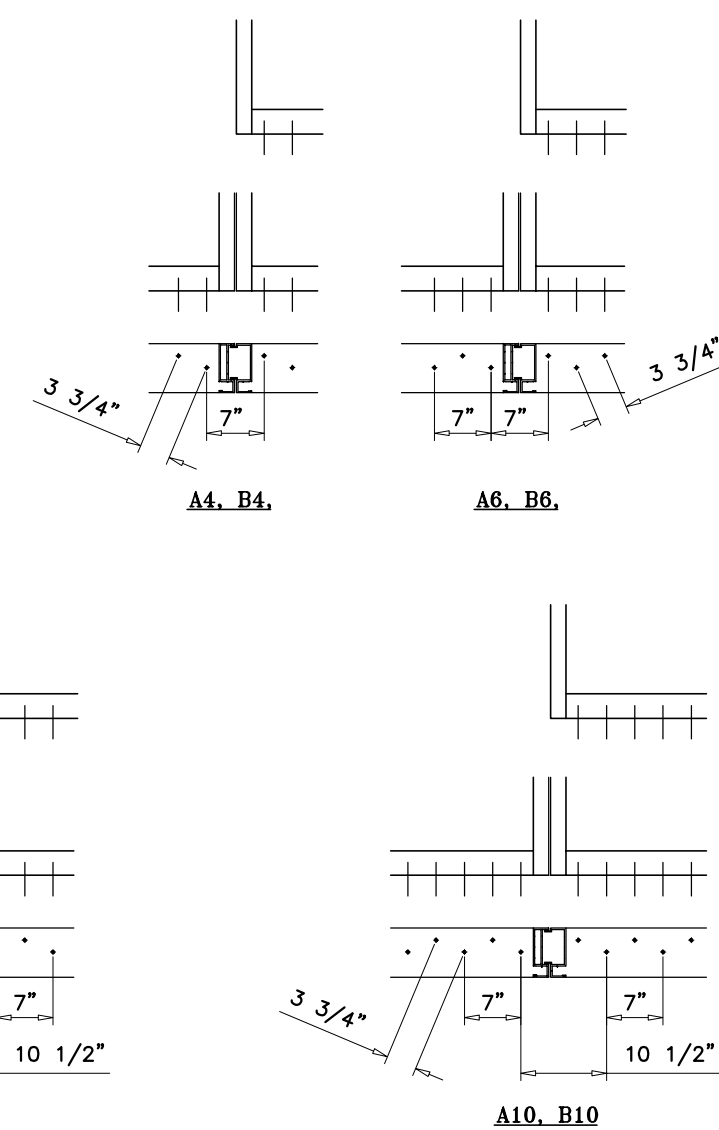
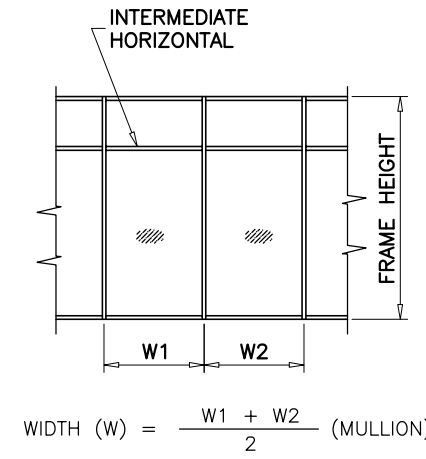
date: 08-27-07
scale: -
dr. by: HAMID
chk. by:

drawing no.
W07-77
sheet 5 of 10

STORE\W07-77NR

**ANCHOR LOAD CAPACITY – PSF
MULLIONS WITH INTERMEDIATE HORIZONTALS
EXT.(+) & INT.(–)**

NOMINAL DIMS.		1/4" MAX. SHIM SPACE				1/2" MAX. SHIM SPACE				1/4" MAX. SHIM SPACE				
		ANCHORS TYPE 'A'				ANCHORS TYPE 'A'				ANCHORS TYPE 'B'				
WIDTH (W)	FRAME HEIGHT	A4	A6	A8	A10	A4	A6	A8	A10	B4	B6	B8	B10	
36"	84"	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	
42"		140.0	140.0	140.0	140.0	124.1	140.0	140.0	140.0	129.0	140.0	140.0	140.0	
48"		123.4	140.0	140.0	140.0	108.6	140.0	140.0	140.0	112.9	140.0	140.0	140.0	
54"		109.7	140.0	140.0	140.0	96.5	140.0	140.0	140.0	100.3	140.0	140.0	140.0	
60"		98.7	140.0	140.0	140.0	86.9	130.3	140.0	140.0	90.3	135.4	140.0	140.0	
66"		89.8	134.6	140.0	140.0	79.0	118.4	140.0	140.0	82.1	123.1	140.0	140.0	
72"		82.3	123.4	140.0	140.0	72.4	108.6	140.0	140.0	75.2	112.9	140.0	140.0	
36"		90"	140.0	140.0	140.0	140.0	135.1	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42"	131.7		140.0	140.0	140.0	115.8	140.0	140.0	140.0	120.4	140.0	140.0	140.0	
48"	115.2		140.0	140.0	140.0	101.3	140.0	140.0	140.0	105.3	140.0	140.0	140.0	
54"	102.4		140.0	140.0	140.0	90.1	135.1	140.0	140.0	93.6	140.0	140.0	140.0	
60"	92.2		138.2	140.0	140.0	81.1	121.6	140.0	140.0	84.3	126.4	140.0	140.0	
66"	83.8		125.7	140.0	140.0	73.7	110.5	140.0	140.0	76.6	114.9	140.0	140.0	
72"	76.8		115.2	140.0	140.0	67.6	101.3	135.1	140.0	70.2	105.3	140.0	140.0	
36"	96"		140.0	140.0	140.0	140.0	126.7	140.0	140.0	140.0	131.7	140.0	140.0	140.0
42"		123.4	140.0	140.0	140.0	108.6	140.0	140.0	140.0	112.9	140.0	140.0	140.0	
48"		108.0	140.0	140.0	140.0	95.0	140.0	140.0	140.0	98.8	140.0	140.0	140.0	
54"		96.0	140.0	140.0	140.0	84.4	126.7	140.0	140.0	87.8	131.7	140.0	140.0	
60"		86.4	129.6	140.0	140.0	76.0	114.0	140.0	140.0	79.0	118.5	140.0	140.0	
66"		78.5	117.8	140.0	140.0	69.1	103.6	138.2	140.0	71.8	107.7	140.0	140.0	
72"		72.0	108.0	140.0	140.0	63.3	95.0	126.7	140.0	65.8	98.8	131.7	140.0	
36"		102"	135.5	140.0	140.0	140.0	119.2	140.0	140.0	140.0	123.9	140.0	140.0	140.0
42"	116.2		140.0	140.0	140.0	102.2	140.0	140.0	140.0	106.2	140.0	140.0	140.0	
48"	101.6		140.0	140.0	140.0	89.4	134.1	140.0	140.0	92.9	139.4	140.0	140.0	
54"	90.4		135.5	140.0	140.0	79.5	119.2	140.0	140.0	82.6	123.9	140.0	140.0	
60"	81.3		122.0	140.0	140.0	71.5	107.3	140.0	140.0	74.4	111.5	140.0	140.0	
66"	73.9		110.9	140.0	140.0	65.0	97.5	130.1	140.0	67.6	101.4	135.2	140.0	
72"	67.8		101.6	135.5	140.0	59.6	89.4	119.2	140.0	62.0	92.9	123.9	140.0	
36"	108"		128.0	140.0	140.0	140.0	112.6	140.0	140.0	140.0	117.0	140.0	140.0	140.0
42"		109.7	140.0	140.0	140.0	96.5	140.0	140.0	140.0	100.3	140.0	140.0	140.0	
48"		96.0	140.0	140.0	140.0	84.4	126.7	140.0	140.0	87.8	131.7	140.0	140.0	
54"		85.3	128.0	140.0	140.0	75.1	112.6	140.0	140.0	78.0	117.0	140.0	140.0	
60"		76.8	115.2	140.0	140.0	67.6	101.3	135.1	140.0	70.2	105.3	140.0	140.0	
66"		69.8	104.7	139.6	140.0	61.4	92.1	122.8	140.0	63.8	95.8	127.7	140.0	
36"		114"	121.3	140.0	140.0	140.0	106.7	140.0	140.0	140.0	110.9	140.0	140.0	140.0
42"			103.9	140.0	140.0	140.0	91.4	137.1	140.0	140.0	95.0	140.0	140.0	140.0
48"	90.9		136.4	140.0	140.0	80.0	120.0	140.0	140.0	83.2	124.7	140.0	140.0	
54"	80.8		121.3	140.0	140.0	71.1	106.7	140.0	140.0	73.9	110.9	140.0	140.0	
60"	72.8		109.1	140.0	140.0	64.0	96.0	128.0	140.0	66.5	99.8	133.1	140.0	
61"	71.6		107.3	140.0	140.0	63.0	94.4	125.9	140.0	65.4	98.2	130.9	140.0	
36"	119"		116.2	140.0	140.0	140.0	102.2	140.0	140.0	140.0	106.2	140.0	140.0	140.0
42"			99.6	140.0	140.0	140.0	87.6	131.4	140.0	140.0	91.0	136.6	140.0	140.0
48"		87.1	130.7	140.0	140.0	76.6	115.0	140.0	140.0	79.7	119.5	140.0	140.0	
54"		77.4	116.2	140.0	140.0	68.1	102.2	136.2	140.0	70.8	106.2	140.0	140.0	
60"		69.7	104.6	139.4	140.0	61.3	92.0	122.6	140.0	63.7	95.6	127.5	140.0	
61"		68.6	102.8	137.1	140.0	60.3	90.5	120.6	140.0	62.7	94.0	125.4	140.0	
36"		126"	109.7	120.0	120.0	120.0	96.5	120.0	120.0	120.0	100.3	120.0	120.0	120.0
42"			94.0	120.0	120.0	120.0	82.7	120.0	120.0	120.0	86.0	120.0	120.0	120.0
48"	82.3		120.0	120.0	120.0	72.4	108.6	120.0	120.0	75.2	112.9	120.0	120.0	
36"	131"	105.5	120.0	120.0	120.0	92.8	120.0	120.0	120.0	96.5	120.0	120.0	120.0	
42"		90.5	120.0	120.0	120.0	79.6	119.3	120.0	120.0	82.7	120.0	120.0	120.0	
48"		79.1	118.7	120.0	120.0	69.6	104.4	120.0	120.0	72.4	108.5	120.0	120.0	



ANCHORS TYPES: SEE SHEET 7 FOR DESCRIPTION

A4 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB & MULLION
 B4 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB & MULLION

A6 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB & MULLION
 B6 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB & MULLION

A8 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB & MULLION
 B8 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB & MULLION

A10 = (5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB & MULLION
 B10 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB & MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

Engr: DR. HUMAYOUN FAROOQ
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 ENGINEERS & PRODUCT DEVELOPMENT
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 MIAMI, FLORIDA 33174
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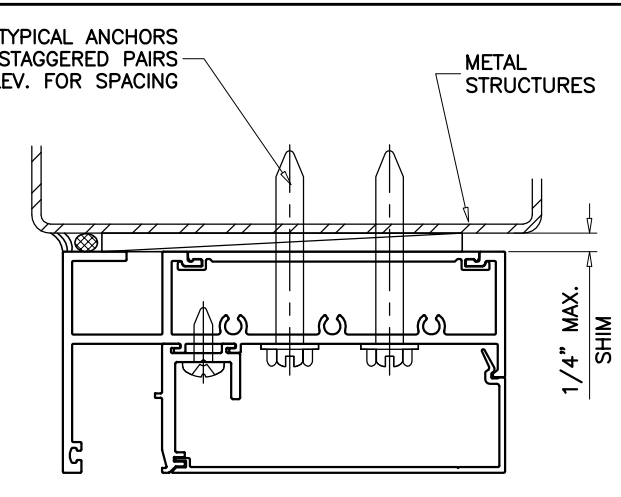
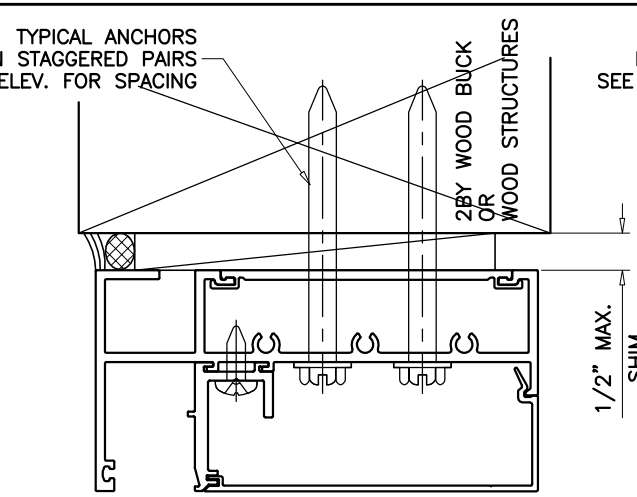
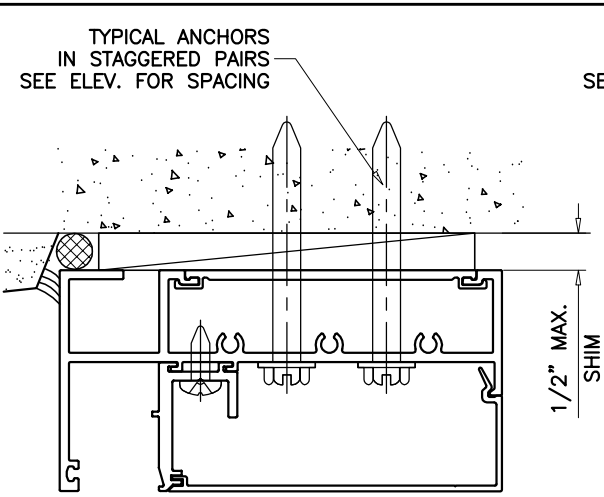
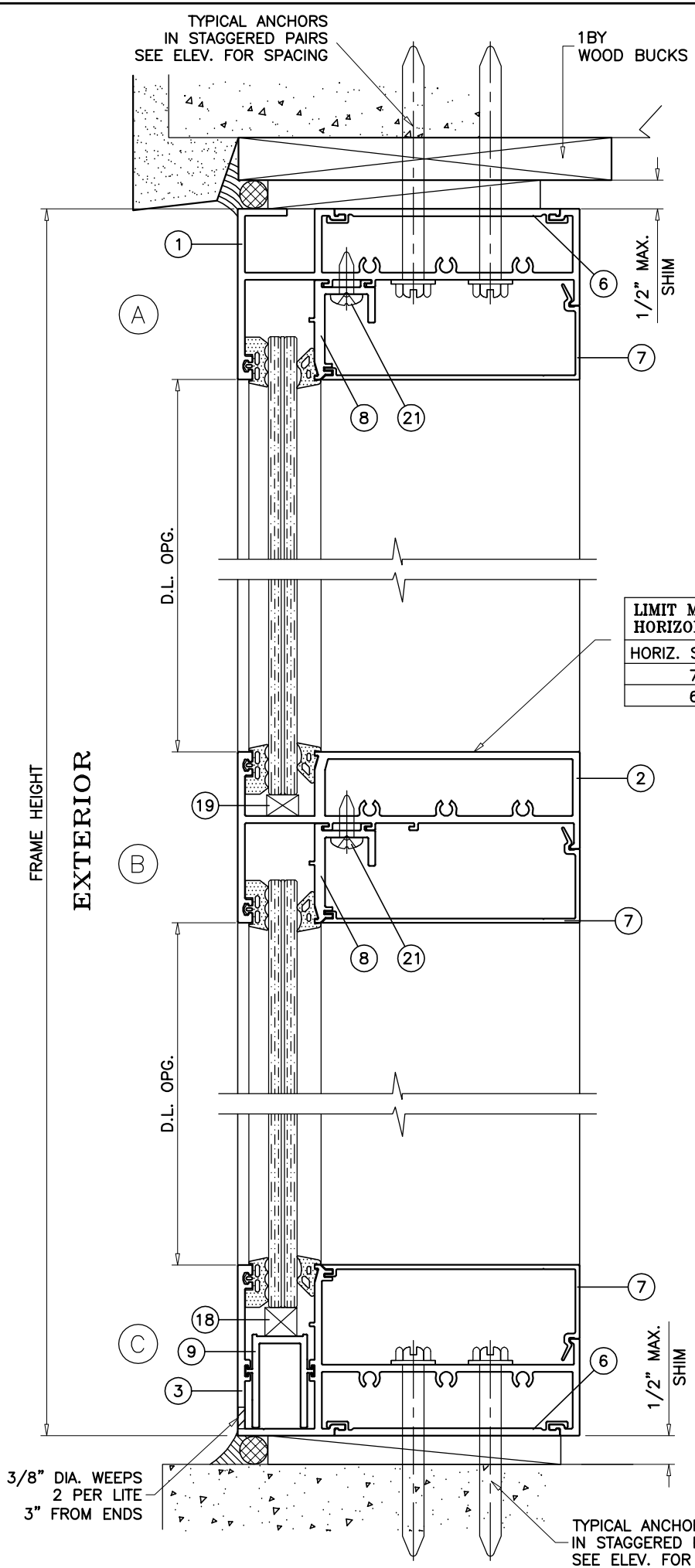
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 chk. by:

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LIMIT MAX. DESIGN LOADS FOR HORIZONTAL AS FOLLOWS

HORIZ. SPAN MAX.	LAM. GLASS
72"	132 PSF
66"	140 PSF

WOOD BUCKS AND METAL STRUCTURES NOT BY N.R. WDW. MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA HILTI KWIK-CON II INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

TYPE 'B' - 1/4" KWIK-FLEX SELF DRILLING SCREWS INTO METAL STRUCTURES STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.) ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
 INTO CONCRETE AND MASONRY = 3" MIN.
 INTO WOOD STRUCTURE = 1-1/2" MIN.
 INTO METAL STRUCTURE = 1" MIN.

SEALANTS:
 ALL FRAME CORNERS AND JOINTS SEALED WITH DOW-795 OR TREMCO SPECTREM 2 SILICONE SEALANT.

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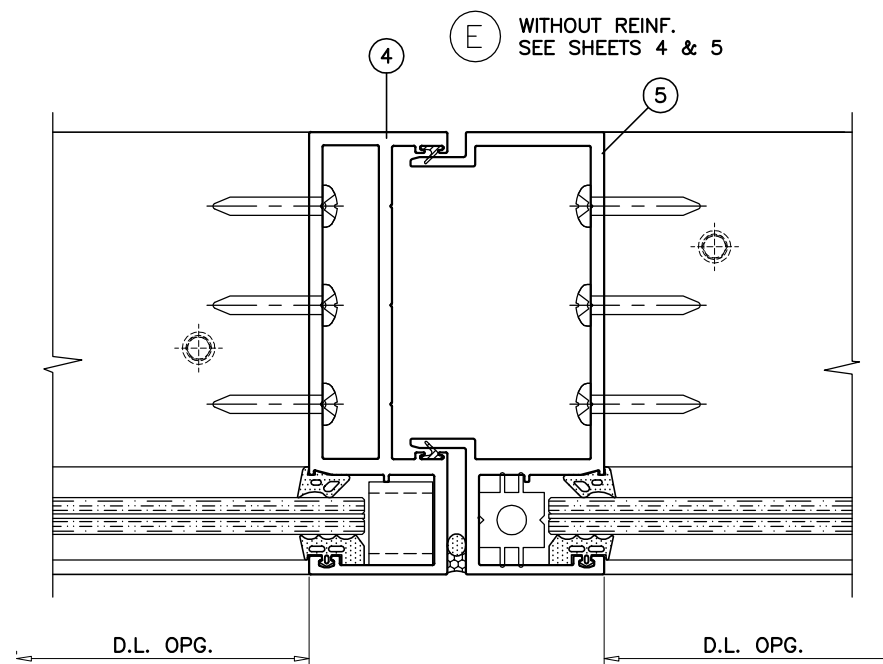
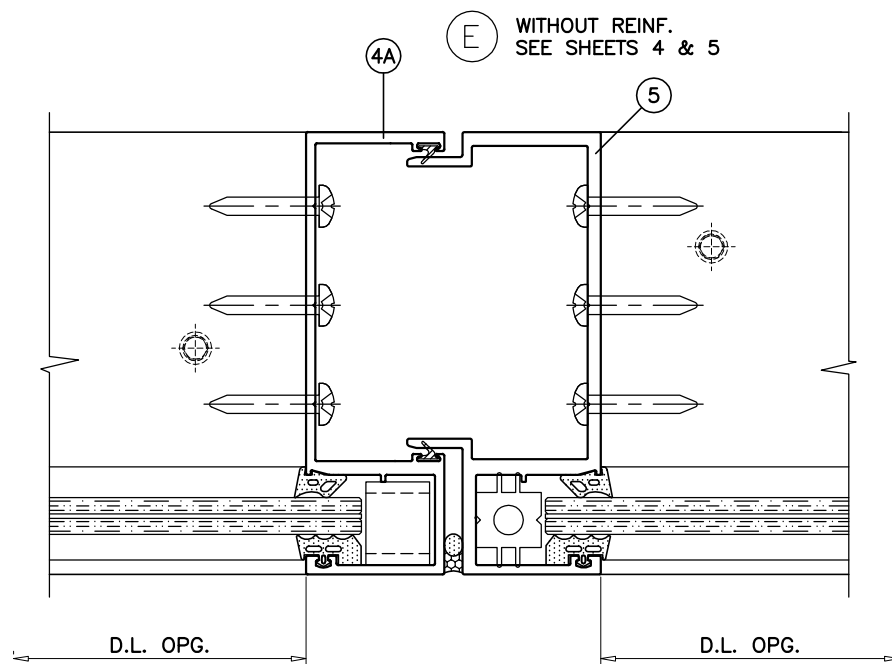
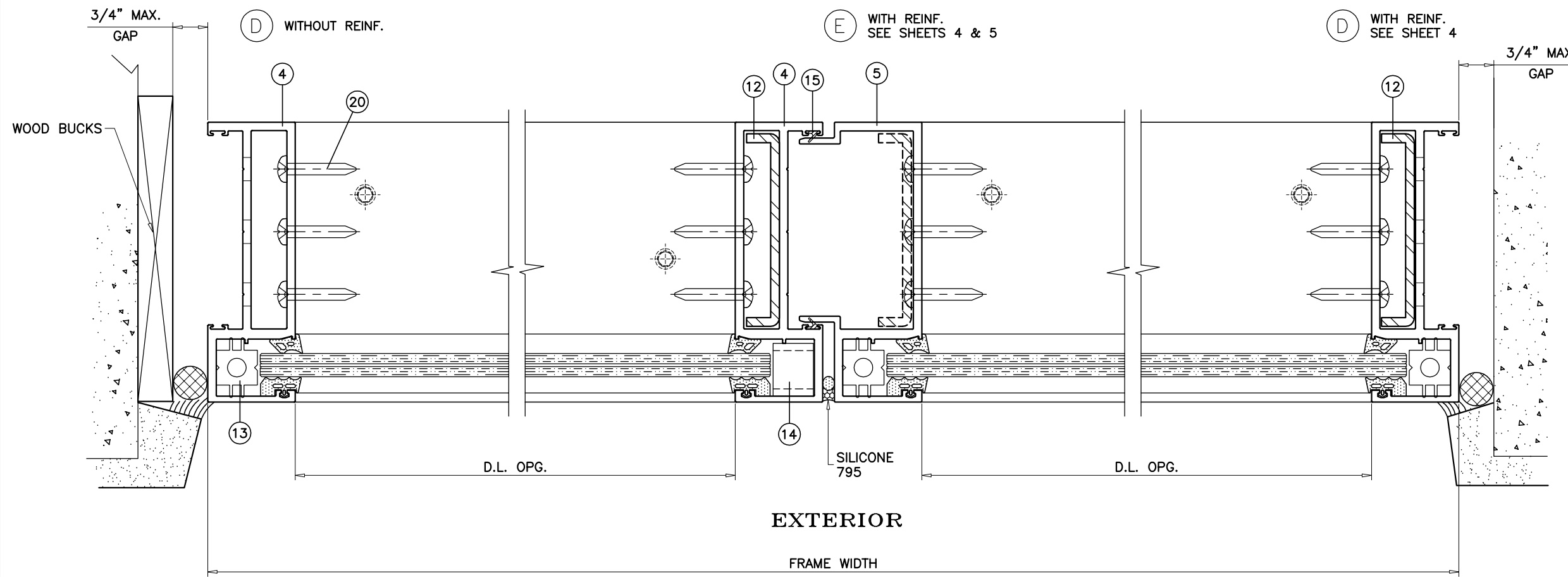
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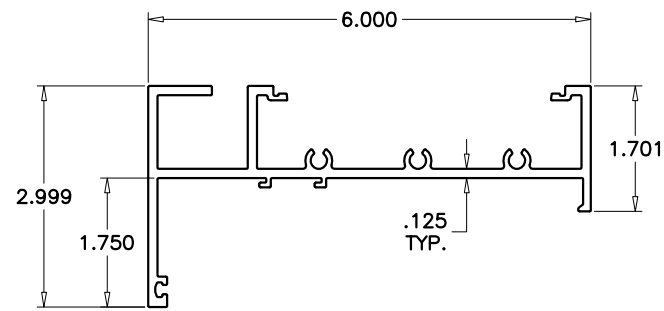
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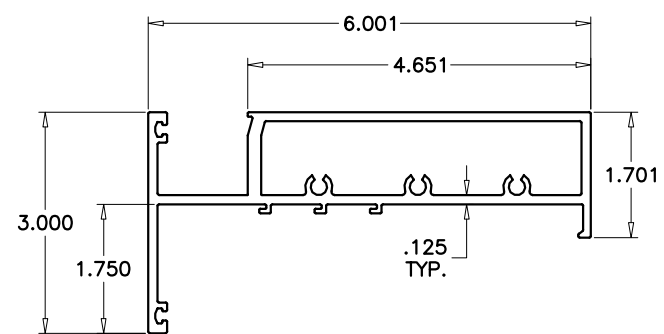
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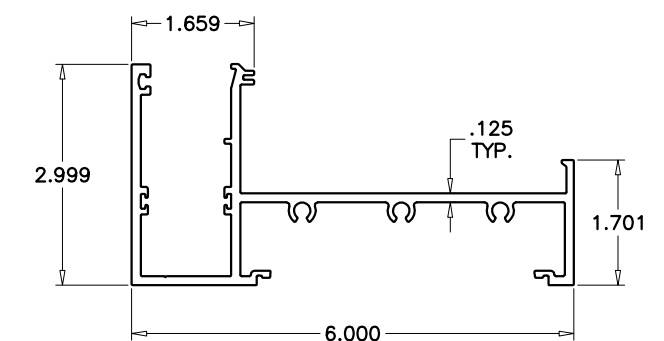
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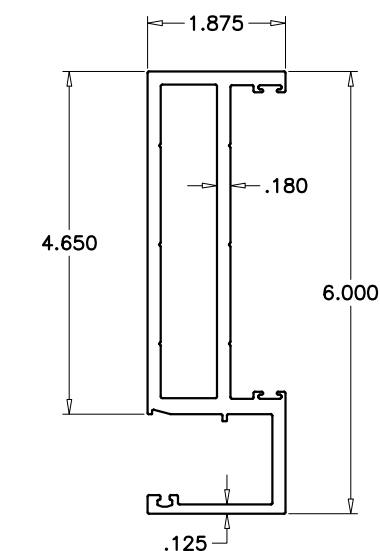
① FRAME HEAD



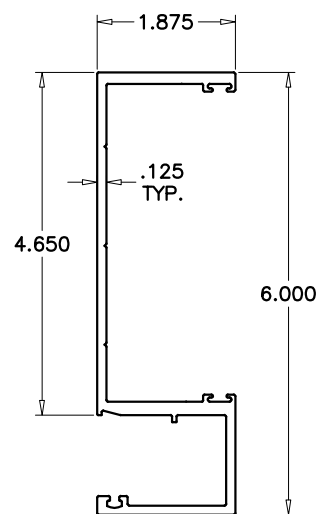
② INTERMEDIATE HORIZONTAL



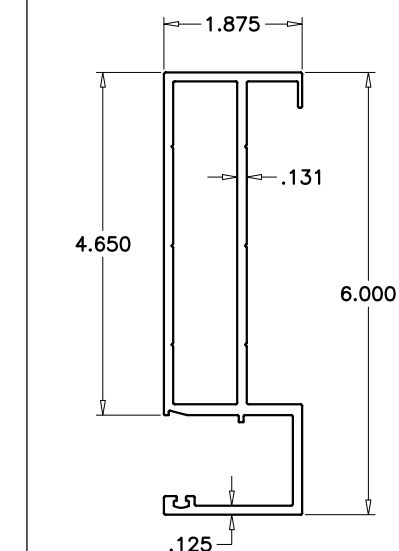
③ FRAME SILL



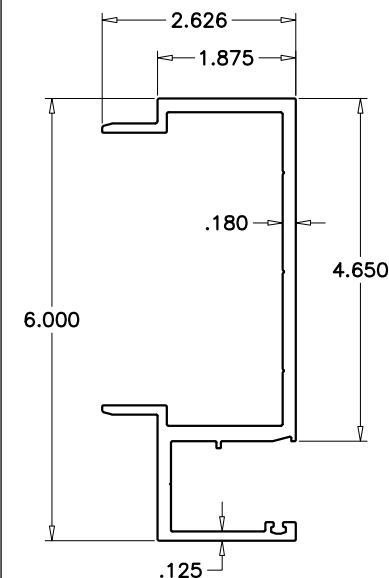
④ FRAME JAMB/FEMALE MULLION



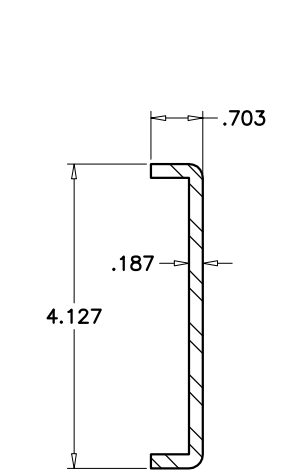
④A ALT. FEMALE MULLION



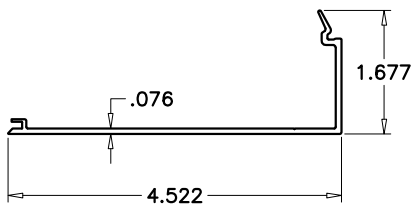
④B ALT. FRAME JAMB



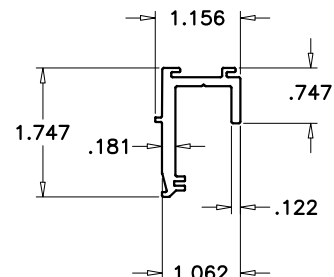
⑤ MALE MULLION



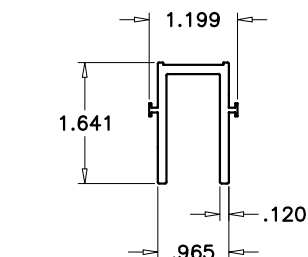
⑫ REINFORCING CHANNEL



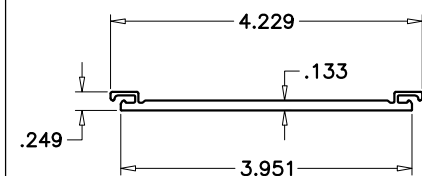
⑦ SNAP ON COVER



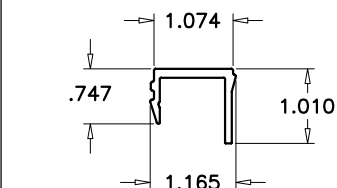
⑧ GLASS STOP



⑨ GLASS CHAIR



⑥ INSTALLATION PLATE



⑩ POCKET FILLER

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	FW001S	AS REQD.	FRAME HEAD	6063-T6	-
2	FW002S	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	-
3	FW003S	AS REQD.	FRAME SILL	6063-T6	-
4	FW004S	AS REQD.	FRAME JAMB/ FEMALE MULLION	6063-T6	-
4A	FW012S	AS REQD.	ALT. FEMALE MULLION	6063-T6	-
4B	FW013S	AS REQD.	ALT. FRAME JAMB	6063-T6	-
5	FW005S	AS REQD.	MALE MULLION	6063-T6	-
6	FW006S	AS REQD.	INSTALLATION PLATE	6063-T6	-
7	FW007S	AS REQD.	SNAP ON COVER	6063-T5	-
8	FW008S	AS REQD.	GLASS STOP	6063-T5	-
9	FW009S	2/ LITE	GLASS CHAIR, 4" LONG	6063-T5	-
10	FW010S	AS REQD.	POCKET FILLER	6063-T5	-
12	SI	AS REQD.	REINFORCING CHANNEL	STEEL	-
13	NR-G1	AS REQD.	SIDE BLOCKS (TR-1456E)	EPDM	-
14	NR-G2	AS REQD.	W BLOCKS (TR-3508E)	EPDM	-
15	NR-G3	AS REQD.	WEATHER FIN (TR-1311E)	EPDM	-
16	NR-G4	AS REQD.	CUSTOM PRE-SET GASKET (TR-13915E)	EPDM	-
17	NR-G5	AS REQD.	INTERIOR WEDGE GASKET (TR-1507E)	EPDM	-
18	NR-G6	AS REQD.	SETTING BLOCK (1/2" X 9/16" X 4" LONG) (TR-1990E)	EPDM	-
19	NR-G7	AS REQD.	SETTING BLOCK (3/8" X 9/16" X 4" LONG) (TR-1008S)	EPDM	-
20	NR-F1	3/ CORNER	FRAME ASS'Y SCREWS (1/4" X 1-1/2" PHP SELF TAPPING)	ST/ST	-
21	NR-F2	AS REQD.	GLASS STOP SCREWS (1/4" X 3/4" PHP SELF TAPPING)	ST/ST	AT 1" FROM ENDS & 18" O.C.

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