

ANCHOR TYPES	ANCHOR SPCING FOR LOADS	
	UPTO 70 PSF	ABOVE 70 PSF
A	15" O.C.	12" O.C.
B	15" O.C.	15" O.C.
C	12" O.C.	9" O.C.
C1	7" O.C.	6" O.C.
D	15" O.C.	15" O.C.

**SERIES YHS 50 FS  
ALUMINUM STOREFRONT SYSTEM**

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH IRC/IBC APPROVED MODEL 35H LARGE MISSILE IMPACT RESISTANT ENTRANCE DOORS. LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2006 INTERNATIONAL RESIDENTIAL CODE (IRC) AND 2006 INTERNATIONAL BUILDING CODE (IBC) WITH TEXAS REVISIONS. TESTING PERFORMED IN ACCORDANCE WITH FLORIDA PROTOCOLS TAS201, 202 & 203.

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 IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

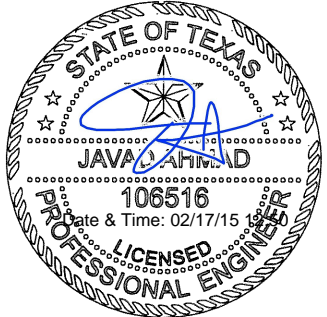
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE INTL. RESIDENTIAL CODE (IRC) AND INTL. BLDG. CODE (IBC) WITH TEXAS REVISIONS.

**INSTRUCTIONS:**

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEETS 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 4 & 5 FOR STOREFRONT MULLION AND SHEETS 8 THRU 11 FOR DOOR MULLION THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHART ON SHEETS 6 & 7 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  
LARGE MISSILE IMPACT**



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

YHS 50 FS ALUMINUM STOREFRONT SYS. (L.M.I.)

**YKK AP AMERICA INC.**  
1229 HIGHWAY 441 BYPASS  
DUBLIN, GEORGIA 31021  
TEL.(478) 277-1955 FAX(478) 277-1978

STORE\W14-37YKK

no.	date	description

date: 09-31-14

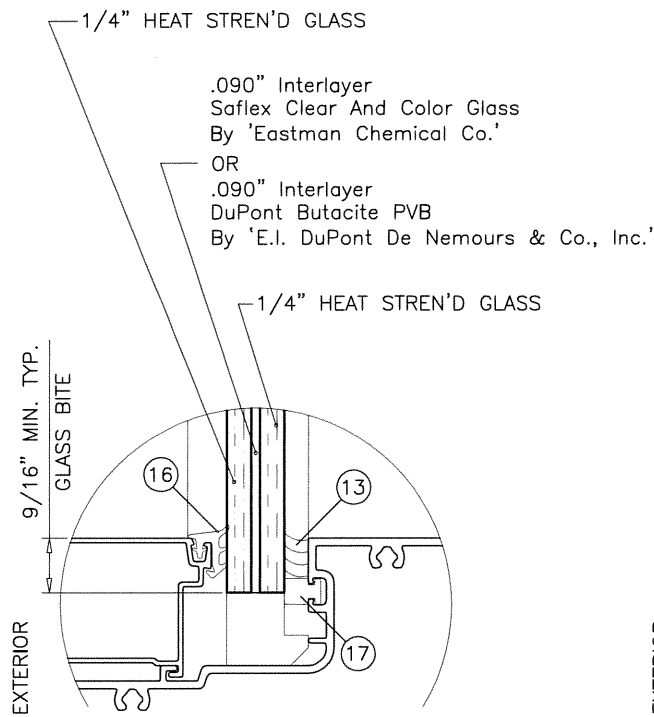
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dr. by: HAMID

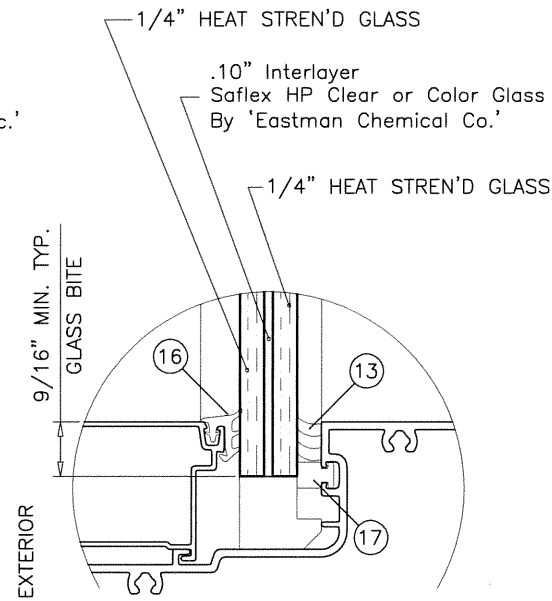
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**W14-37**

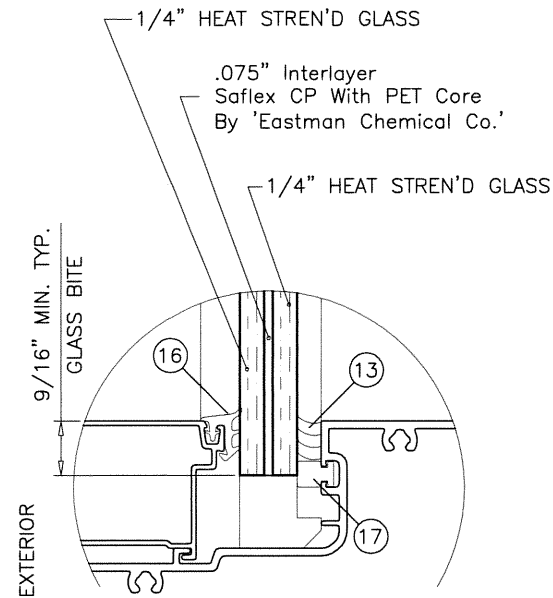
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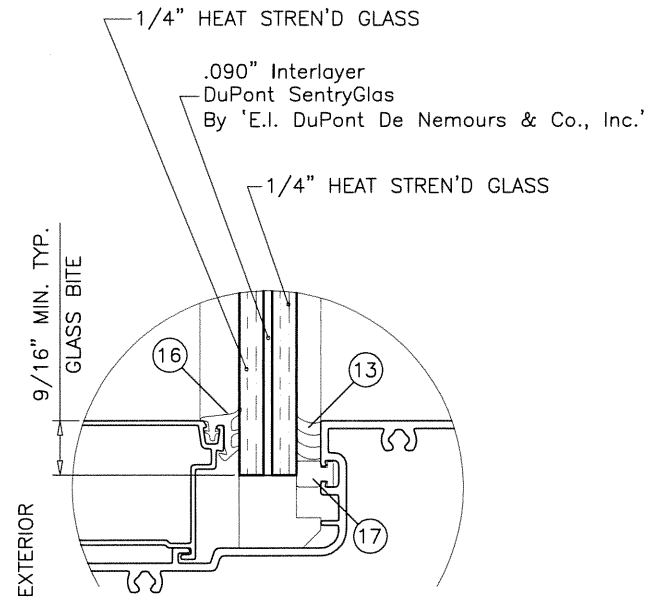
GLASS TYPE 'A'  
9/16" THICK NOMINAL



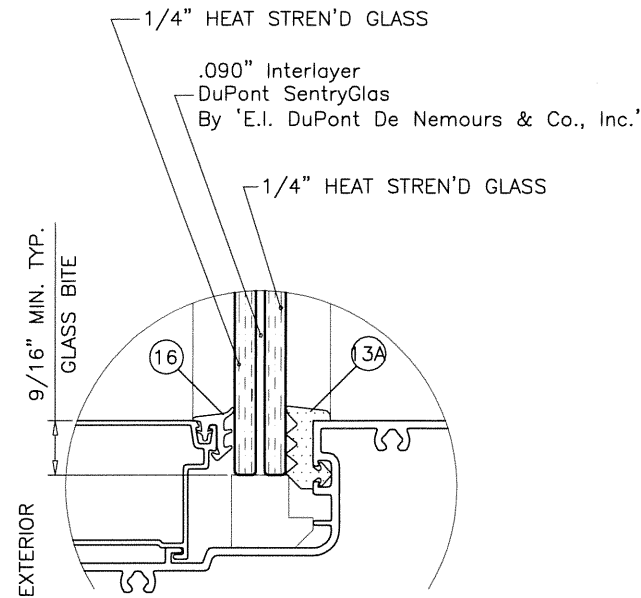
GLASS TYPE 'B'  
9/16" THICK NOMINAL



GLASS TYPE 'C'  
9/16" THICK NOMINAL



GLASS TYPE 'D'  
9/16" THICK NOMINAL

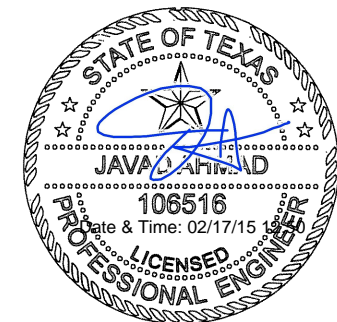


GLASS TYPE 'F'  
9/16" THICK NOMINAL  
DRY GLAZED

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E9-0601	AS REQD.	FRAME HEAD/MULLION	6063-T5	-
2	E9-0615	AS REQD.	FRAME SILL	6063-T5	-
3	E9-0603	AS REQD.	FRAME HORIZONTAL	6063-T5	-
4	E9-0608	AS REQD.	GLAZING STOP	6063-T5	-
5	E9-0604	AS REQD.	FRAME JAMB	6063-T5	-
6	E9-0605	AS REQD.	STD. MULLION	6063-T6	-
7	E9-0606	AS REQD.	POCKET FILLER	6063-T5	-
7A	E9-0617	AS REQD.	SHALLOW POCKET FILLER	6063-T5	-
8	E9-0616	AS REQD.	SILL FLASHING	6063-T5	-
10	E1-1071	AS REQD.	ANCHOR PLATE	6063-T5	-
11	E1-1062	AS REQD.	REINFORCING CHANNEL	STEEL	LENGTH = FRAME HT. - 6 5/8"
13	DOW 995	AS REQD.	GLAZING COMPOUND	SILICONE	-
13A	E2-0088	AS REQD.	INTERIOR GLAZING GASKET	EPDM SPONGE	-
16	E2-0083	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	FOR 9/16" GLASS
17	E2-0084	AS REQD.	INTERIOR SILICONE SPACER	EPDM	-
18	E2-0094	AS REQD.	SIDE BLOCK	EPDM	-
19	E2-0080	AS REQD.	SETTING BLOCK	EPDM	-
21	PC-1216	AS REQD.	#12 X 1" SMS	STEEL	FOR SCREW SPLINE
22	FF-1008	AS REQD.	#10 X 1/2" SMS	STEEL	FOR GLAZING POCKET FILLER
23	PC-1408	AS REQD.	#14 X 1/2" SMS	STEEL	FOR THRESHOLD
24	PC-1424	AS REQD.	#14 X 1-1/2" SMS	STEEL	FOR SILL
25	E9-0518	AS REQD.	FEMALE MULLION	6063-T5	-
26	E9-0519	AS REQD.	MALE MULLION	6063-T5	-
27	-	AS REQD.	EXPANSION MULLION REINF.	STEEL	-
28	E9-0504	AS REQD.	DOOR MULLION	6063-T5	-

**SEALANTS:**

ALL FRAME CORNERS SEALED WITH DOW-795 SILICONE SEALANT.



**af c**

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revisions:	no	date	by	description

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chk. by:

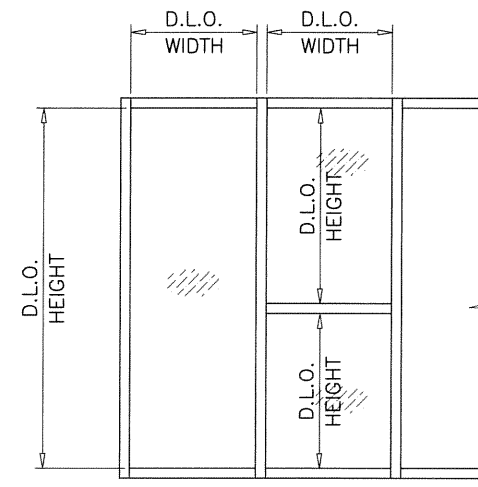
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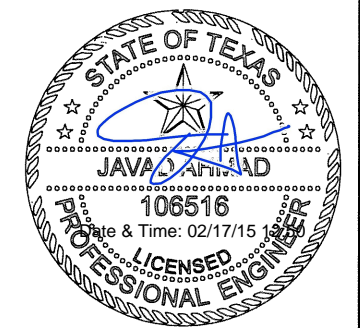


GLASS LOAD CAPACITY - PSF									
NOMINAL DIMS.		GLASS TYPE 'A'		GLASS 'B' & 'C'		GLASS TYPE 'D'		GLASS TYPE 'F'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	80-7/8"	65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
39"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
42"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
45-1/2"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
48"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
51"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
54"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
57-1/2"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
60"		-	-	70.0	90.0	-	-	65.0	65.0
63"		-	-	70.0	90.0	-	-	65.0	65.0
66"		-	-	70.0	90.0	-	-	65.0	65.0
69"		-	-	70.0	90.0	-	-	65.0	65.0
72"	-	-	70.0	90.0	-	-	65.0	65.0	
36"	84"	65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
39"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
42"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
45-1/2"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
48"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
51"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
54"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
57-1/2"		-	-	70.0	90.0	-	-	65.0	65.0
60"		-	-	70.0	90.0	-	-	65.0	65.0
63"		-	-	70.0	90.0	-	-	65.0	65.0
66"		-	-	70.0	90.0	-	-	65.0	65.0
69"		-	-	70.0	90.0	-	-	65.0	65.0
72"	-	-	70.0	90.0	-	-	-	-	
36"	90"	65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
39"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
42"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
45-1/2"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
48"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
51"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
54"		-	-	70.0	90.0	-	-	65.0	65.0
57-1/2"		-	-	70.0	90.0	-	-	65.0	65.0
60"		-	-	70.0	90.0	-	-	65.0	65.0
63"		-	-	70.0	90.0	-	-	65.0	65.0
66"		-	-	70.0	90.0	-	-	-	-
69"		-	-	70.0	90.0	-	-	-	-
72"	-	-	70.0	90.0	-	-	-	-	
36"	96"	65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
39"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
42"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
45-1/2"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
48"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
51"		-	-	70.0	90.0	-	-	65.0	65.0
54"		-	-	70.0	90.0	-	-	65.0	65.0
57-1/2"		-	-	70.0	90.0	-	-	65.0	65.0
60"		-	-	70.0	90.0	-	-	65.0	65.0
63"		-	-	70.0	90.0	-	-	-	-
66"		-	-	70.0	90.0	-	-	-	-

GLASS LOAD CAPACITY - PSF										
NOMINAL DIMS.		GLASS TYPE 'A'		GLASS 'B' & 'C'		GLASS TYPE 'D'		GLASS TYPE 'F'		
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
36"	102-3/8"	65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0	
39"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0	
42"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0	
45-1/2"		-	-	70.0	90.0	-	-	65.0	65.0	
48"		-	-	70.0	90.0	-	-	65.0	65.0	
51"		-	-	70.0	90.0	-	-	65.0	65.0	
54"		-	-	70.0	90.0	-	-	65.0	65.0	
57-1/2"		-	-	70.0	90.0	-	-	65.0	65.0	
60"		-	-	70.0	90.0	-	-	-	-	
63"		-	-	70.0	90.0	-	-	-	-	
36"		108"	65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
39"			65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
42"	65.0		65.0	70.0	90.0	70.0	90.0	65.0	65.0	
45-1/2"	-		-	70.0	90.0	-	-	65.0	65.0	
48"	-		-	70.0	90.0	-	-	65.0	65.0	
51"	-		-	70.0	90.0	-	-	65.0	65.0	
54"	-		-	70.0	90.0	-	-	65.0	65.0	
57-1/2"	-		-	70.0	90.0	-	-	-	-	
60"	-		-	70.0	90.0	-	-	-	-	
36"	114-3/8"		65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
39"			65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
42"			-	-	70.0	90.0	-	-	65.0	65.0
45-1/2"		-	-	70.0	90.0	-	-	65.0	65.0	
48"		-	-	70.0	90.0	-	-	65.0	65.0	
51"		-	-	70.0	90.0	-	-	65.0	65.0	
54"		-	-	70.0	90.0	-	-	-	-	
57-1/2"		-	-	70.0	90.0	-	-	-	-	
36"		120"	65.0	65.0	70.0	90.0	70.0	90.0	65.0	65.0
39"			-	-	70.0	90.0	-	-	65.0	65.0
42"			-	-	70.0	90.0	-	-	65.0	65.0
45-1/2"			-	-	70.0	90.0	-	-	65.0	65.0
48"	-		-	70.0	90.0	-	-	65.0	65.0	
51"	-		-	70.0	90.0	-	-	-	-	
54"	-		-	70.0	90.0	-	-	-	-	
36"	126"		-	-	70.0	90.0	70.0	90.0	65.0	65.0
39"			-	-	70.0	90.0	-	-	65.0	65.0
42"			-	-	70.0	90.0	-	-	65.0	65.0
45-1/2"			-	-	70.0	90.0	-	-	65.0	65.0
48"			-	-	70.0	90.0	-	-	-	-
51"		-	-	70.0	90.0	-	-	-	-	
36"		132"	-	-	70.0	90.0	-	-	65.0	65.0
39"			-	-	70.0	90.0	-	-	65.0	65.0
42"			-	-	70.0	90.0	-	-	65.0	65.0
45-1/2"			-	-	70.0	90.0	-	-	-	-
48"			-	-	70.0	90.0	-	-	-	-
36"			138-3/8"	-	-	70.0	90.0	-	-	65.0
39"	-			-	70.0	90.0	-	-	65.0	65.0
42"	-			-	70.0	90.0	-	-	65.0	65.0
45-1/2"	-			-	70.0	90.0	-	-	-	-



NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)





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date: 09-31-14

scale: -

dr. by: HAMID

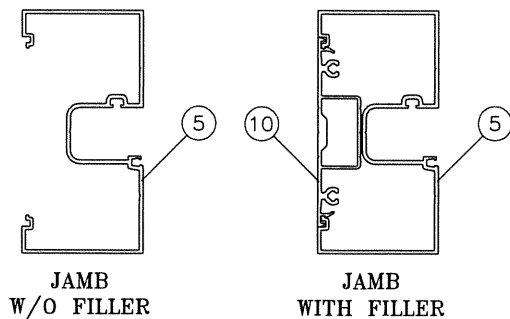
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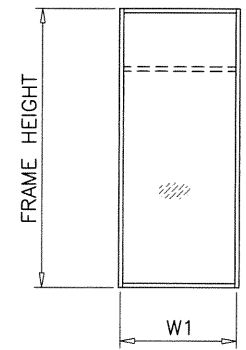
sheet 3 of 15

FREE STANDING JAMB LOAD CAPACITY - PSF						
NOMINAL DIMS.		JAMB W/O FILLER		JAMB WITH FILLER		
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
36"	72"	60.0	60.0	65.0	65.0	
39"		60.0	60.0	65.0	65.0	
42"		60.0	60.0	65.0	65.0	
45"		60.0	60.0	65.0	65.0	
48"		60.0	60.0	65.0	65.0	
51"		60.0	60.0	65.0	65.0	
54"		60.0	60.0	65.0	65.0	
57"		60.0	60.0	65.0	65.0	
60"		60.0	60.0	65.0	65.0	
63"		60.0	60.0	65.0	65.0	
66"		-	-	65.0	65.0	
69"		-	-	65.0	65.0	
72"		-	-	65.0	65.0	
36"		78"	60.0	60.0	65.0	65.0
39"	60.0		60.0	65.0	65.0	
42"	60.0		60.0	65.0	65.0	
45"	60.0		60.0	65.0	65.0	
48"	60.0		60.0	65.0	65.0	
51"	60.0		60.0	65.0	65.0	
54"	60.0		60.0	65.0	65.0	
57"	60.0		60.0	65.0	65.0	
60"	-		-	65.0	65.0	
63"	-		-	65.0	65.0	
66"	-		-	65.0	65.0	
69"	-		-	60.0	60.0	
72"	-		-	60.0	60.0	
36"	84"		60.0	60.0	65.0	65.0
39"		60.0	60.0	65.0	65.0	
42"		60.0	60.0	65.0	65.0	
45"		60.0	60.0	65.0	65.0	
48"		60.0	60.0	65.0	65.0	
51"		60.0	60.0	65.0	65.0	
54"		60.0	60.0	65.0	65.0	
57"		-	-	65.0	65.0	
60"		-	-	65.0	65.0	
63"		-	-	60.0	60.0	
66"		-	-	60.0	60.0	
69"		-	-	60.0	60.0	
36"		86-1/2"	60.0	60.0	65.0	65.0
39"			60.0	60.0	65.0	65.0
42"	60.0		60.0	65.0	65.0	
45"	60.0		60.0	65.0	65.0	
48"	60.0		60.0	65.0	65.0	
51"	60.0		60.0	65.0	65.0	
54"	-		-	65.0	65.0	
57"	-		-	65.0	65.0	
60"	-		-	65.0	65.0	
63"	-		-	60.0	60.0	
66"	-		-	60.0	60.0	
69"	-		-	60.0	60.0	

FREE STANDING JAMB LOAD CAPACITY - PSF						
NOMINAL DIMS.		JAMB W/O FILLER		JAMB WITH FILLER		
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
36"	90"	60.0	60.0	65.0	65.0	
39"		60.0	60.0	65.0	65.0	
42"		60.0	60.0	65.0	65.0	
45"		60.0	60.0	65.0	65.0	
48"		60.0	60.0	65.0	65.0	
51"		60.0	60.0	65.0	65.0	
54"		-	-	64.1	64.1	
57"		-	-	60.7	60.7	
60"		-	-	60.0	60.0	
63"		-	-	60.0	60.0	
66"		-	-	60.0	60.0	
36"		96"	60.0	60.0	65.0	65.0
39"			60.0	60.0	65.0	65.0
42"			57.4	57.4	65.0	65.0
45"	53.6		53.6	63.4	63.4	
48"	50.2		50.2	60.0	60.0	
51"	-		-	60.0	60.0	
54"	-		-	60.0	60.0	
57"	-		-	60.0	60.0	
60"	-		-	60.0	60.0	
36"	102"		52.6	52.6	65.0	65.0
39"			48.5	48.5	61.0	61.0
42"			45.0	45.0	60.0	60.0
45"			42.0	42.0	60.0	60.0
48"			-	-	60.0	60.0
51"		-	-	60.0	60.0	
54"		-	-	60.0	60.0	
57"		-	-	58.5	58.5	
36"		108"	41.8	41.8	60.0	60.0
39"			38.6	38.6	60.0	60.0
42"			-	-	60.0	60.0
45"			-	-	60.0	60.0
48"			-	-	58.6	58.6
51"			-	-	55.1	55.1
54"	-		-	52.1	52.1	
36"	114"		33.7	33.7	60.0	60.0
39"			-	-	60.0	60.0
42"			-	-	56.9	56.9
45"			-	-	53.1	53.1
48"			-	-	49.8	49.8
51"			-	-	46.9	46.9
36"			120"	30.2	30.2	56.9
39"		-		-	52.6	52.6
42"		-		-	48.8	48.8
45"		-		-	45.5	45.5
48"		-		-	42.7	42.7

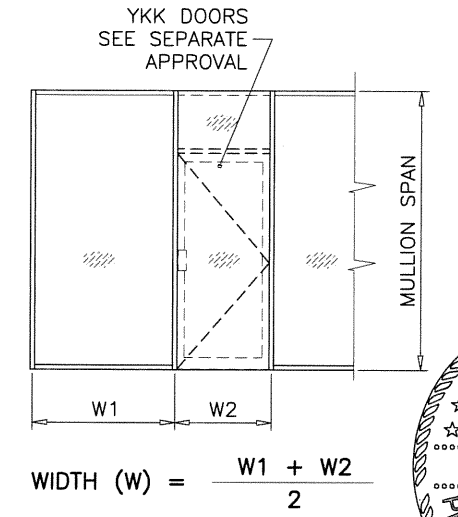
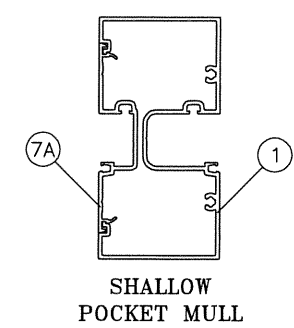
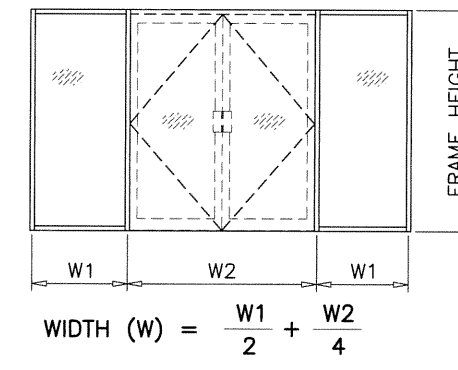
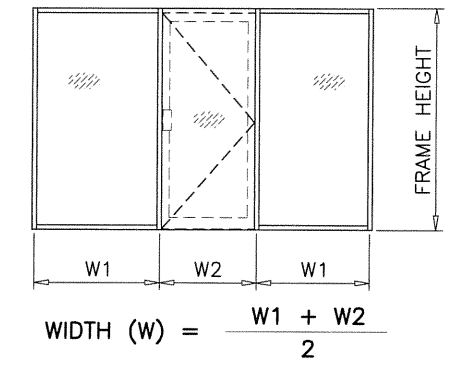
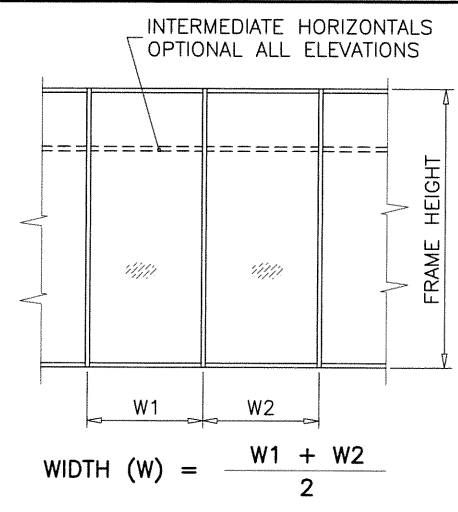


WIDTH (W) = W1 (JAMB)

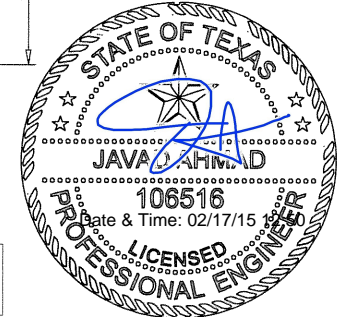


JAMBS

MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.		SHALLOW POCKET MULL		
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	
36"	72"	60.0	60.0	
39"		60.0	60.0	
42"		60.0	60.0	
45"		60.0	60.0	
48"		60.0	60.0	
51"		60.0	60.0	
54"		60.0	60.0	
57"		60.0	60.0	
60"		60.0	60.0	
63"		60.0	60.0	
36"		78"	60.0	60.0
39"			60.0	60.0
42"			60.0	60.0
45"			60.0	60.0
48"	60.0		60.0	
51"	60.0		60.0	
54"	60.0		60.0	
57"	60.0		60.0	
36"	84"		60.0	60.0
39"			60.0	60.0
42"			60.0	60.0
45"			60.0	60.0
48"			60.0	60.0
51"			60.0	60.0
54"		60.0	60.0	
36"		90"	60.0	60.0
39"			60.0	60.0
42"			60.0	60.0
45"			60.0	60.0
48"			60.0	60.0
51"			60.0	60.0
36"			96"	60.0
39"	60.0			60.0
42"	60.0			60.0
45"	60.0			60.0
48"	60.0			60.0



MULLIONS



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 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE W14-37YKK

YHS 50 FS ALUMINUM STOREFRONT SYS. (L.M.I.)  
**YKK AP AMERICA INC.**  
 1229 HIGHWAY 441 BYPASS  
 DUBLIN, GEORGIA 31021  
 TEL.(478) 277-1955 FAX(478) 277-1978

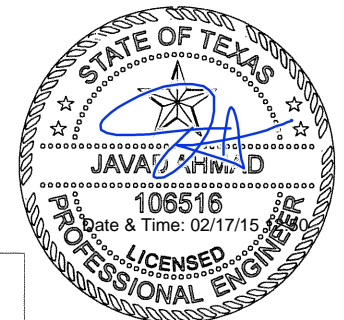
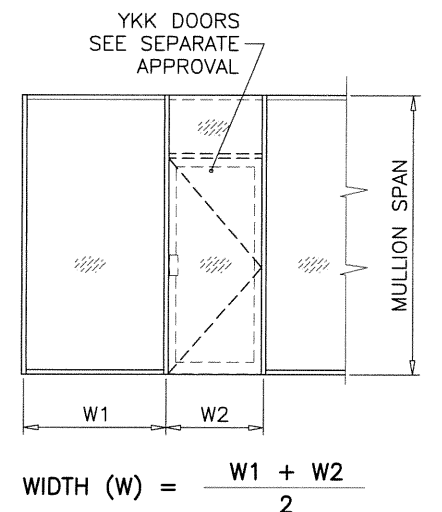
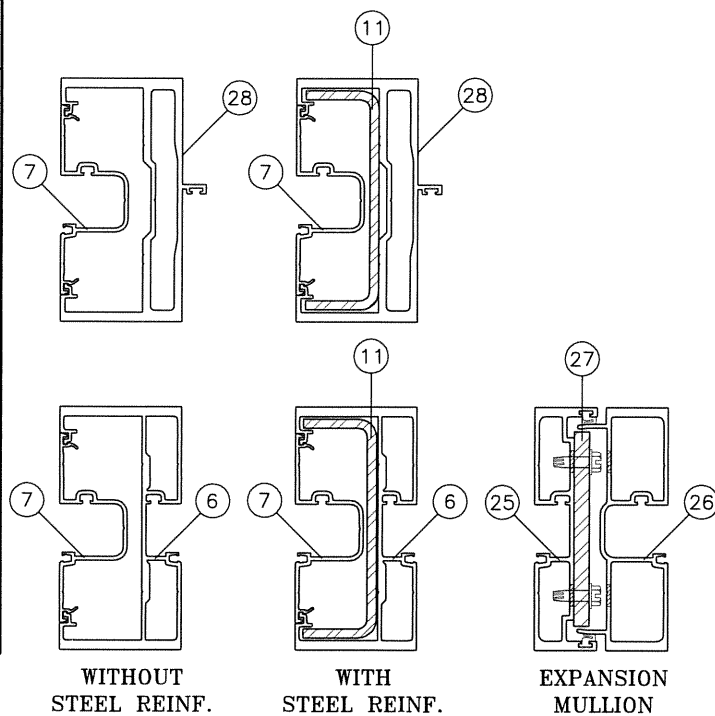
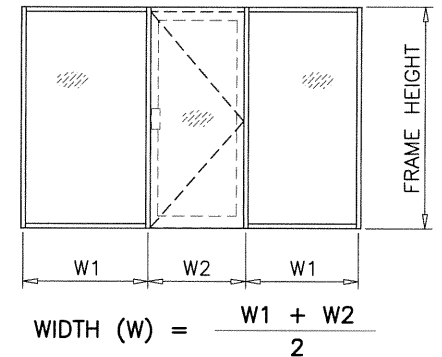
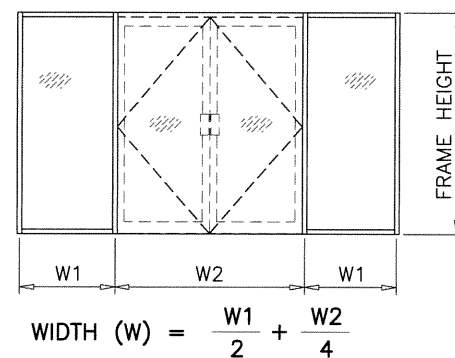
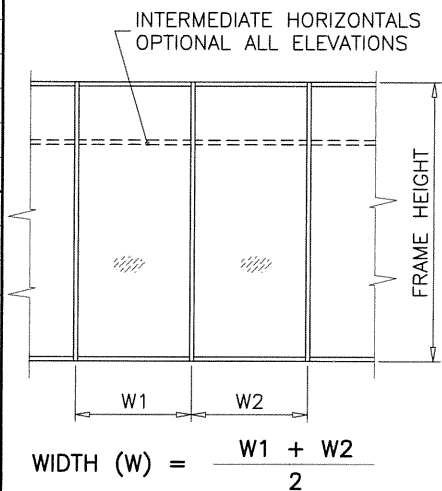
revisions:	no	date	by	description
date:	09-31-14	scale:	-	
dr. by:	HAMID	chk. by:		
drawing no.	W14-37			
sheet	4 of 15			



MULLION LOAD CAPACITY - PSF							
NOMINAL DIMS.		WITHOUT STEEL REINF.		WITH STEEL REINF.		EXPANSION MULLION	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	78"	55.0	70.0	70.0	90.0	65.0	65.0
39"		55.0	70.0	70.0	90.0	65.0	65.0
42"		55.0	70.0	70.0	90.0	65.0	65.0
45"		55.0	70.0	70.0	90.0	65.0	65.0
48"		55.0	70.0	70.0	90.0	65.0	65.0
51"		55.0	70.0	70.0	90.0	65.0	65.0
54"		55.0	70.0	70.0	90.0	65.0	65.0
57"		55.0	70.0	70.0	90.0	65.0	65.0
60"		55.0	70.0	70.0	90.0	65.0	65.0
63"		55.0	70.0	70.0	90.0	65.0	65.0
66"		55.0	70.0	70.0	90.0	65.0	65.0
69"		55.0	70.0	70.0	90.0	65.0	65.0
72"		55.0	70.0	70.0	90.0	65.0	65.0
36"		84"	55.0	70.0	70.0	90.0	65.0
39"	55.0		70.0	70.0	90.0	65.0	65.0
42"	55.0		70.0	70.0	90.0	65.0	65.0
45"	55.0		70.0	70.0	90.0	65.0	65.0
48"	55.0		70.0	70.0	90.0	65.0	65.0
51"	55.0		70.0	70.0	90.0	65.0	65.0
54"	55.0		70.0	70.0	90.0	65.0	65.0
57"	55.0		70.0	70.0	90.0	65.0	65.0
60"	55.0		70.0	70.0	90.0	65.0	65.0
63"	55.0		70.0	70.0	90.0	65.0	65.0
66"	55.0		70.0	70.0	90.0	65.0	65.0
69"	-		-	70.0	90.0	65.0	65.0
72"	-		-	70.0	90.0	65.0	65.0
36"	90"		55.0	70.0	70.0	90.0	65.0
39"		55.0	70.0	70.0	90.0	65.0	65.0
42"		55.0	70.0	70.0	90.0	65.0	65.0
45"		55.0	70.0	70.0	90.0	65.0	65.0
48"		55.0	70.0	70.0	90.0	65.0	65.0
51"		55.0	70.0	70.0	90.0	65.0	65.0
54"		55.0	70.0	70.0	90.0	65.0	65.0
57"		55.0	70.0	70.0	90.0	65.0	65.0
60"		55.0	70.0	70.0	90.0	65.0	65.0
63"		55.0	70.0	70.0	90.0	65.0	65.0
66"		-	-	70.0	90.0	65.0	65.0
69"		-	-	70.0	90.0	65.0	65.0
72"		-	-	70.0	90.0	65.0	65.0
36"		96"	55.0	70.0	70.0	90.0	65.0
39"	55.0		70.0	70.0	90.0	65.0	65.0
42"	55.0		70.0	70.0	90.0	65.0	65.0
45"	55.0		70.0	70.0	90.0	65.0	65.0
48"	55.0		70.0	70.0	90.0	65.0	65.0
51"	55.0		70.0	70.0	90.0	65.0	65.0
54"	55.0		70.0	70.0	90.0	65.0	65.0
57"	55.0		70.0	70.0	90.0	65.0	65.0
60"	55.0		70.0	70.0	90.0	65.0	65.0
63"	-		-	70.0	90.0	65.0	65.0
66"	-		-	70.0	90.0	65.0	65.0
69"	-		-	70.0	90.0	65.0	65.0
72"	-		-	70.0	90.0	65.0	65.0

MULLION LOAD CAPACITY - PSF								
NOMINAL DIMS.		WITHOUT STEEL REINF.		WITH STEEL REINF.		EXPANSION MULLION		
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
36"	102"	55.0	70.0	70.0	90.0	65.0	65.0	
39"		55.0	70.0	70.0	90.0	65.0	65.0	
42"		55.0	70.0	70.0	90.0	65.0	65.0	
45"		55.0	70.0	70.0	90.0	65.0	65.0	
48"		55.0	70.0	70.0	90.0	65.0	65.0	
51"		55.0	70.0	70.0	90.0	65.0	65.0	
54"		55.0	70.0	70.0	90.0	65.0	65.0	
57"		-	-	70.0	90.0	65.0	65.0	
60"		-	-	70.0	90.0	65.0	65.0	
63"		-	-	70.0	90.0	65.0	65.0	
69"		-	-	70.0	90.0	-	-	
36"		108"	55.0	70.0	70.0	90.0	65.0	65.0
39"			55.0	70.0	70.0	90.0	65.0	65.0
42"			55.0	70.0	70.0	90.0	65.0	65.0
45"	55.0		70.0	70.0	90.0	65.0	65.0	
48"	55.0		70.0	70.0	90.0	65.0	65.0	
51"	55.0		70.0	70.0	90.0	65.0	65.0	
54"	-		-	70.0	90.0	65.0	65.0	
57"	-		-	70.0	90.0	65.0	65.0	
60"	-		-	70.0	90.0	65.0	65.0	
63"	-		-	70.0	90.0	65.0	65.0	
66"	-		-	70.0	89.7	-	-	
36"	114"		55.0	70.0	70.0	90.0	65.0	65.0
39"			55.0	70.0	70.0	90.0	65.0	65.0
42"			55.0	70.0	70.0	90.0	65.0	65.0
45"		55.0	70.0	70.0	90.0	65.0	65.0	
48"		55.0	70.0	70.0	90.0	65.0	65.0	
51"		-	-	70.0	90.0	65.0	65.0	
54"		-	-	70.0	90.0	65.0	65.0	
57"		-	-	70.0	90.0	65.0	65.0	
60"		-	-	70.0	88.6	65.0	65.0	
63"		-	-	70.0	84.4	-	-	
36"		120"	55.0	70.0	70.0	90.0	65.0	65.0
39"			55.0	70.0	70.0	90.0	65.0	65.0
42"			55.0	70.0	70.0	90.0	65.0	65.0
45"			55.0	65.5	70.0	90.0	65.0	65.0
48"	55.0		61.4	70.0	90.0	65.0	65.0	
51"	-		-	70.0	90.0	65.0	65.0	
54"	-		-	70.0	88.8	65.0	65.0	
57"	-		-	70.0	84.2	65.0	65.0	
60"	-		-	70.0	80.0	-	-	
36"	126"		55.0	70.0	70.0	90.0	65.0	65.0
39"			55.0	65.3	70.0	90.0	65.0	65.0
42"			55.0	60.6	70.0	90.0	65.0	65.0
45"			55.0	56.6	70.0	90.0	65.0	65.0
48"			-	-	70.0	90.0	65.0	65.0
51"		-	-	70.0	85.3	65.0	65.0	
54"		-	-	70.0	80.6	65.0	65.0	
57"		-	-	70.0	76.3	-	-	

MULLION LOAD CAPACITY - PSF							
NOMINAL DIMS.		WITHOUT STEEL REINF.		WITH STEEL REINF.		EXPANSION MULLION	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	132"	55.0	61.5	70.0	90.0	65.0	65.0
39"		55.0	56.8	70.0	90.0	65.0	65.0
42"		52.7	52.7	70.0	90.0	65.0	65.0
45"		-	-	70.0	88.1	65.0	65.0
48"		-	-	70.0	82.6	65.0	65.0
51"		-	-	70.0	77.7	65.0	65.0
54"		-	-	70.0	73.4	-	-
36"	138"	53.8	53.8	70.0	90.0	65.0	65.0
39"		49.7	49.7	70.0	90.0	65.0	65.0
42"		-	-	70.0	84.4	65.0	65.0
45"		-	-	70.0	78.8	65.0	65.0
48"		-	-	70.0	73.9	65.0	65.0
51"	-	-	69.5	69.5	-	-	
36"	144"	47.4	47.4	70.0	86.7	65.0	65.0
39"		43.7	43.7	70.0	80.0	65.0	65.0
42"		-	-	70.0	74.3	65.0	65.0
45"		-	-	69.4	69.4	63.9	63.9
48"		-	-	65.0	65.0	59.9	59.9



MULLIONS

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ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE W14-37YKK

YHS 50 FS ALUMINUM STOREFRONT SYS. (L.M.I.)  
**YKK AP AMERICA INC.**  
1229 HIGHWAY 441 BYPASS  
DUBLIN, GEORGIA 31021  
TEL.(478) 277-1955 FAX(478) 277-1978

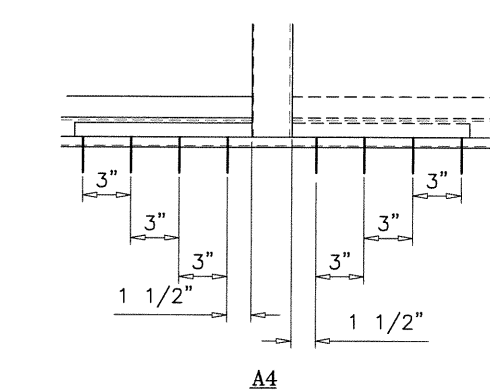
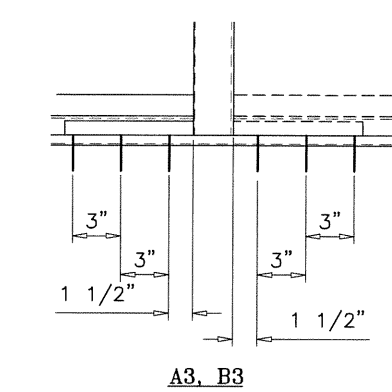
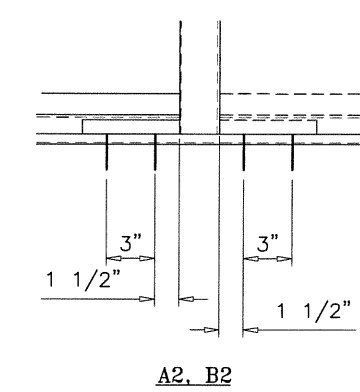
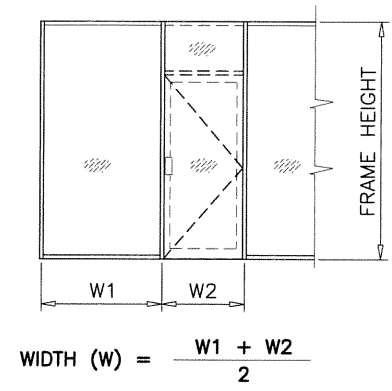
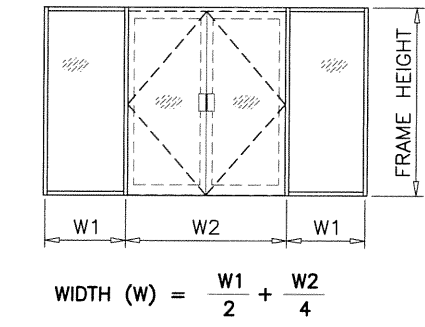
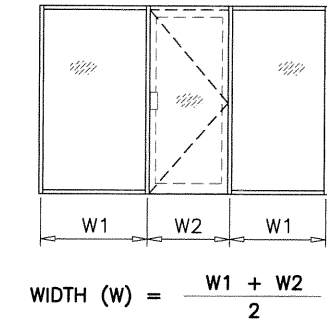
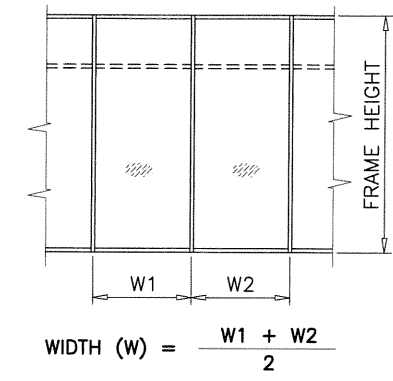
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date:	09-31-14	scale:	-	
dr. by:	HAMID	chk. by:		
drawing no.	W14-37			
sheet	5 of 15			



ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3
36"	72"	90.0	90.0	90.0	90.0	90.0
39"		90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0
45"		90.0	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0	90.0
51"		90.0	90.0	90.0	90.0	90.0
54"		87.1	90.0	90.0	90.0	90.0
57"		82.5	90.0	90.0	90.0	90.0
60"		78.4	90.0	90.0	90.0	90.0
63"		74.7	90.0	90.0	90.0	90.0
66"		71.3	90.0	90.0	90.0	90.0
69"		68.2	90.0	90.0	90.0	90.0
72"		65.3	90.0	90.0	90.0	90.0
75"		62.7	90.0	90.0	90.0	90.0
36"		78"	90.0	90.0	90.0	90.0
39"	90.0		90.0	90.0	90.0	90.0
42"	90.0		90.0	90.0	90.0	90.0
45"	90.0		90.0	90.0	90.0	90.0
48"	90.0		90.0	90.0	90.0	90.0
51"	85.1		90.0	90.0	90.0	90.0
54"	80.4		90.0	90.0	90.0	90.0
57"	76.2		90.0	90.0	90.0	90.0
60"	72.4		90.0	90.0	90.0	90.0
63"	68.9		90.0	90.0	90.0	90.0
66"	65.8		90.0	90.0	90.0	90.0
69"	62.9		90.0	90.0	90.0	90.0
72"	60.3		90.0	90.0	90.0	90.0
75"	57.9		86.8	90.0	90.0	90.0
36"	84"		90.0	90.0	90.0	90.0
39"		90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0
45"		89.6	90.0	90.0	90.0	90.0
48"		84.0	90.0	90.0	90.0	90.0
51"		79.1	90.0	90.0	90.0	90.0
54"		74.7	90.0	90.0	90.0	90.0
57"		70.7	90.0	90.0	90.0	90.0
60"		67.2	90.0	90.0	90.0	90.0
63"		64.0	90.0	90.0	90.0	90.0
66"		61.1	90.0	90.0	90.0	90.0
69"		58.4	87.7	90.0	90.0	90.0
72"		56.0	84.0	90.0	88.0	90.0
75"		53.8	80.6	90.0	84.5	90.0
36"		90"	90.0	90.0	90.0	90.0
39"	90.0		90.0	90.0	90.0	90.0
42"	89.6		90.0	90.0	90.0	90.0
45"	83.6		90.0	90.0	90.0	90.0
48"	78.4		90.0	90.0	90.0	90.0
51"	73.8		90.0	90.0	90.0	90.0
54"	69.7		90.0	90.0	90.0	90.0
57"	66.0		90.0	90.0	90.0	90.0
60"	62.7		90.0	90.0	90.0	90.0
63"	59.7		89.6	90.0	90.0	90.0
66"	57.0		85.5	90.0	89.6	90.0
69"	54.5		81.8	90.0	85.7	90.0
72"	52.3		78.4	90.0	82.1	90.0
75"	50.2		75.3	90.0	78.8	90.0

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	
36"	96"	90.0	90.0	90.0	90.0	90.0	
39"		90.0	90.0	90.0	90.0	90.0	
42"		84.0	90.0	90.0	90.0	90.0	
45"		78.4	90.0	90.0	90.0	90.0	
48"		73.5	90.0	90.0	90.0	90.0	
51"		69.2	90.0	90.0	90.0	90.0	
54"		65.3	90.0	90.0	90.0	90.0	
57"		61.9	90.0	90.0	90.0	90.0	
60"		58.8	88.2	90.0	90.0	90.0	
63"		56.0	84.0	90.0	88.0	90.0	
66"		53.5	80.2	90.0	84.0	90.0	
69"		51.1	76.7	90.0	80.3	90.0	
72"		49.0	73.5	90.0	77.0	90.0	
75"		47.0	70.6	90.0	73.9	90.0	
36"		102"	90.0	90.0	90.0	90.0	90.0
39"	85.1		90.0	90.0	90.0	90.0	
42"	79.1		90.0	90.0	90.0	90.0	
45"	73.8		90.0	90.0	90.0	90.0	
48"	69.2		90.0	90.0	90.0	90.0	
51"	65.1		90.0	90.0	90.0	90.0	
54"	61.5		90.0	90.0	90.0	90.0	
57"	58.3		87.4	90.0	90.0	90.0	
60"	55.3		83.0	90.0	87.0	90.0	
63"	52.7		79.1	90.0	82.8	90.0	
66"	50.3		75.5	90.0	79.1	90.0	
69"	48.1		72.2	90.0	75.6	90.0	
36"	108"		87.1	90.0	90.0	90.0	90.0
39"			80.4	90.0	90.0	90.0	90.0
42"			74.7	90.0	90.0	90.0	90.0
45"		69.7	90.0	90.0	90.0	90.0	
48"		65.3	90.0	90.0	90.0	90.0	
51"		61.5	90.0	90.0	90.0	90.0	
54"		58.1	87.1	90.0	90.0	90.0	
57"		55.0	82.5	90.0	86.5	90.0	
60"		52.3	78.4	90.0	82.1	90.0	
63"		49.8	74.7	90.0	78.2	90.0	
66"		47.5	71.3	90.0	74.7	90.0	
36"		114"	82.5	90.0	90.0	90.0	90.0
39"			76.2	90.0	90.0	90.0	90.0
42"			70.7	90.0	90.0	90.0	90.0
45"			66.0	90.0	90.0	90.0	90.0
48"	61.9		90.0	90.0	90.0	90.0	
51"	58.3		87.4	90.0	90.0	90.0	
54"	55.0		82.5	90.0	86.5	90.0	
57"	52.1		78.2	90.0	81.9	90.0	
60"	49.5		74.3	90.0	77.8	90.0	
63"	47.2		70.7	90.0	74.1	90.0	
36"	120"		78.4	90.0	90.0	90.0	90.0
39"			72.4	90.0	90.0	90.0	90.0
42"			67.2	90.0	90.0	90.0	90.0
45"			62.7	90.0	90.0	90.0	90.0
48"			58.8	88.2	90.0	90.0	90.0
51"		55.3	83.0	90.0	87.0	90.0	
54"		52.3	78.4	90.0	82.1	90.0	
57"		49.5	74.3	90.0	77.8	90.0	
60"		47.0	70.6	90.0	73.9	90.0	

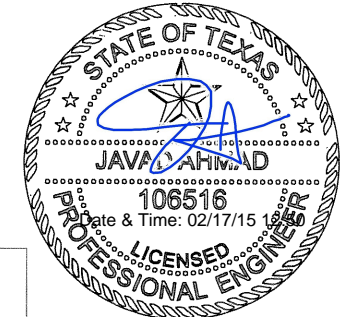
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3
36"	126"	74.7	90.0	90.0	90.0	90.0
39"		68.9	90.0	90.0	90.0	90.0
42"		64.0	90.0	90.0	90.0	90.0
45"		59.7	89.6	90.0	90.0	90.0
48"		56.0	84.0	90.0	88.0	90.0
51"		52.7	79.1	90.0	82.8	90.0
54"		49.8	74.7	90.0	78.2	90.0
57"		47.2	70.7	90.0	74.1	90.0
36"	132"	71.3	90.0	90.0	90.0	90.0
39"		65.8	90.0	90.0	90.0	90.0
42"		61.1	90.0	90.0	90.0	90.0
45"		57.0	85.5	90.0	89.6	90.0
48"		53.5	80.2	90.0	84.0	90.0
51"		50.3	75.5	90.0	79.1	90.0
54"		47.5	71.3	90.0	74.7	90.0
36"		138"	68.2	90.0	90.0	90.0
39"	62.9		90.0	90.0	90.0	90.0
42"	58.4		87.7	90.0	90.0	90.0
45"	54.5		81.8	90.0	85.7	90.0
48"	51.1		76.7	90.0	80.3	90.0
51"	48.1		72.2	90.0	75.6	90.0
36"	144"	65.3	90.0	90.0	90.0	90.0
39"		60.3	90.0	90.0	90.0	90.0
42"		56.0	84.0	90.0	88.0	90.0
45"		52.3	78.4	90.0	82.1	90.0
48"		49.0	73.5	90.0	77.0	90.0



**ANCHORS TYPES:** SEE SHEET 12 FOR DESCRIPTION  
**A2** = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION  
**A3** = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION  
**A4** = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION  
**B2** = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION  
**B3** = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

**ANCHORS**



**a f c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE W14-37YKK

**YKH AP AMERICA INC.**  
 YKH 50 FS ALUMINUM STOREFRONT SYS. (L.M.I.)  
 1229 HIGHWAY 441 BYPASS  
 DUBLIN, GEORGIA 31021  
 TEL.(478) 277-1955 FAX(478) 277-1978

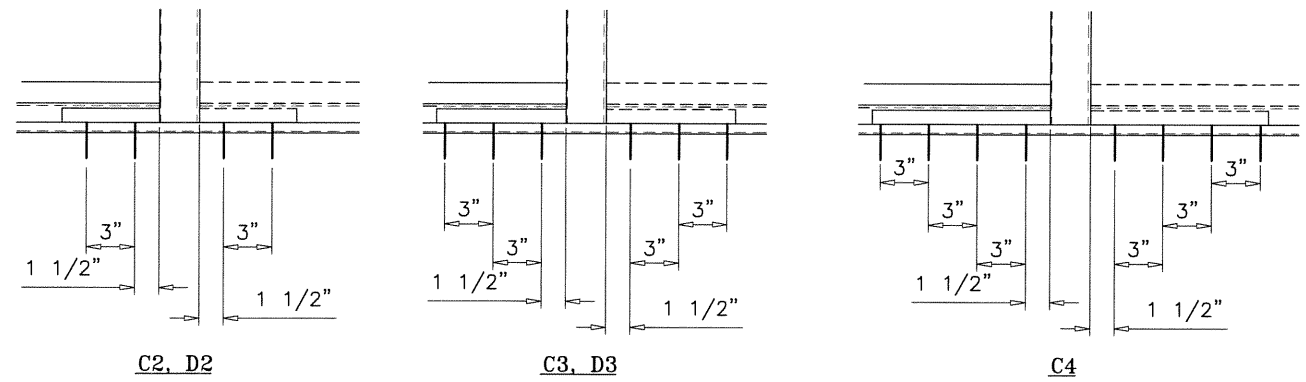
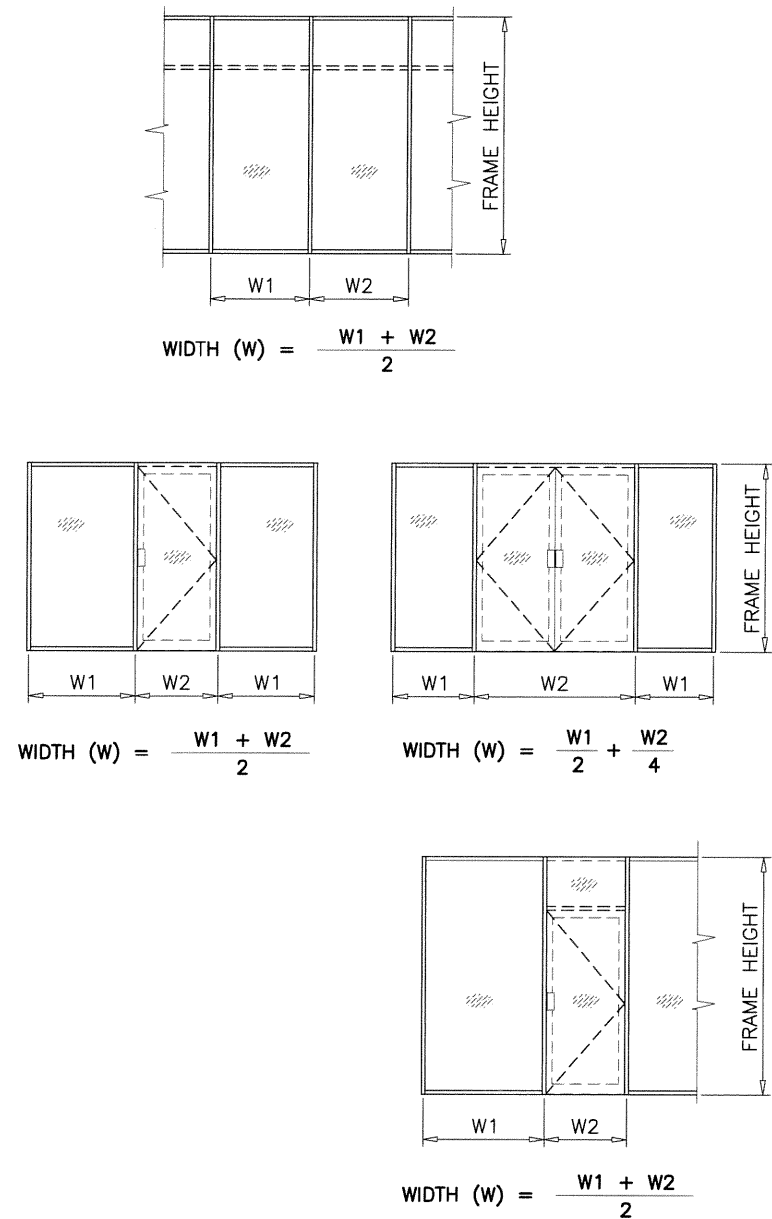
revisions:	no	date	by	description
date:	09-31-14	scale:	-	
dr. by:	HAMID	chk. by:		
drawing no.	W14-37			
sheet	6 of 15			



ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'	
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3
36"	72"	90.0	90.0	90.0	90.0	90.0
39"		88.6	90.0	90.0	90.0	90.0
42"		82.3	90.0	90.0	90.0	90.0
45"		76.8	90.0	90.0	90.0	90.0
48"		72.0	90.0	90.0	90.0	90.0
51"		67.8	90.0	90.0	90.0	90.0
54"		64.0	90.0	90.0	90.0	90.0
57"		60.6	90.0	90.0	90.0	90.0
60"		57.6	86.4	90.0	90.0	90.0
63"		54.9	82.3	90.0	90.0	90.0
66"		52.4	78.5	90.0	90.0	90.0
69"		50.1	75.1	90.0	90.0	90.0
72"		48.0	72.0	90.0	90.0	90.0
75"		46.1	69.1	90.0	90.0	90.0
36"		78"	88.6	90.0	90.0	90.0
39"	81.8		90.0	90.0	90.0	90.0
42"	76.0		90.0	90.0	90.0	90.0
45"	70.9		90.0	90.0	90.0	90.0
48"	66.5		90.0	90.0	90.0	90.0
51"	62.6		90.0	90.0	90.0	90.0
54"	59.1		88.6	90.0	90.0	90.0
57"	56.0		84.0	90.0	90.0	90.0
60"	53.2		79.8	90.0	90.0	90.0
63"	50.6		76.0	90.0	90.0	90.0
66"	48.3		72.5	90.0	90.0	90.0
69"	46.2		69.4	90.0	90.0	90.0
72"	44.3		66.5	88.6	90.0	90.0
75"	42.5		63.8	85.1	90.0	90.0
36"	84"		82.3	90.0	90.0	90.0
39"		76.0	90.0	90.0	90.0	90.0
42"		70.5	90.0	90.0	90.0	90.0
45"		65.8	90.0	90.0	90.0	90.0
48"		61.7	90.0	90.0	90.0	90.0
51"		58.1	87.1	90.0	90.0	90.0
54"		54.9	82.3	90.0	90.0	90.0
57"		52.0	78.0	90.0	90.0	90.0
60"		49.4	74.1	90.0	90.0	90.0
63"		47.0	70.5	90.0	90.0	90.0
66"		44.9	67.3	89.8	90.0	90.0
69"		42.9	64.4	85.9	90.0	90.0
72"		41.1	61.7	82.3	87.2	90.0
75"		39.5	59.2	79.0	83.7	90.0
36"		90"	76.8	90.0	90.0	90.0
39"	70.9		90.0	90.0	90.0	90.0
42"	65.8		90.0	90.0	90.0	90.0
45"	61.4		90.0	90.0	90.0	90.0
48"	57.6		86.4	90.0	90.0	90.0
51"	54.2		81.3	90.0	90.0	90.0
54"	51.2		76.8	90.0	90.0	90.0
57"	48.5		72.8	90.0	90.0	90.0
60"	46.1		69.1	90.0	90.0	90.0
63"	43.9		65.8	87.8	90.0	90.0
66"	41.9		62.8	83.8	88.8	90.0
69"	40.1		60.1	80.1	85.0	90.0
72"	38.4		57.6	76.8	81.4	90.0
75"	36.9		55.3	73.7	78.2	90.0

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)							
NOMINAL DIMS.		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3	
36"	96"	72.0	90.0	90.0	90.0	90.0	
39"		66.5	90.0	90.0	90.0	90.0	
42"		61.7	90.0	90.0	90.0	90.0	
45"		57.6	86.4	90.0	90.0	90.0	
48"		54.0	81.0	90.0	90.0	90.0	
51"		50.8	76.2	90.0	90.0	90.0	
54"		48.0	72.0	90.0	90.0	90.0	
57"		45.5	68.2	90.0	90.0	90.0	
60"		43.2	64.8	86.4	90.0	90.0	
63"		41.1	61.7	82.3	87.2	90.0	
66"		39.3	58.9	78.5	83.3	90.0	
69"		37.6	56.3	75.1	79.7	90.0	
72"		36.0	54.0	72.0	76.3	90.0	
75"		34.6	51.8	69.1	73.3	90.0	
36"		102"	67.8	90.0	90.0	90.0	90.0
39"	62.6		90.0	90.0	90.0	90.0	
42"	58.1		87.1	90.0	90.0	90.0	
45"	54.2		81.3	90.0	90.0	90.0	
48"	50.8		76.2	90.0	90.0	90.0	
51"	47.8		71.8	90.0	90.0	90.0	
54"	45.2		67.8	90.0	90.0	90.0	
57"	42.8		64.2	85.6	90.0	90.0	
60"	40.7		61.0	81.3	86.2	90.0	
63"	38.7		58.1	77.4	82.1	90.0	
66"	37.0		55.4	73.9	78.4	90.0	
69"	35.4		53.0	70.7	75.0	90.0	
36"	108"		64.0	90.0	90.0	90.0	90.0
39"			59.1	88.6	90.0	90.0	90.0
42"			54.9	82.3	90.0	90.0	90.0
45"		51.2	76.8	90.0	90.0	90.0	
48"		48.0	72.0	90.0	90.0	90.0	
51"		45.2	67.8	90.0	90.0	90.0	
54"		42.7	64.0	85.3	90.0	90.0	
57"		40.4	60.6	80.8	85.7	90.0	
60"		38.4	57.6	76.8	81.4	90.0	
63"		36.6	54.9	73.1	77.5	90.0	
66"		34.9	52.4	69.8	74.0	90.0	
36"		114"	60.6	90.0	90.0	90.0	90.0
39"			56.0	84.0	90.0	90.0	90.0
42"			52.0	78.0	90.0	90.0	90.0
45"			48.5	72.8	90.0	90.0	90.0
48"	45.5		68.2	90.0	90.0	90.0	
51"	42.8		64.2	85.6	90.0	90.0	
54"	40.4		60.6	80.8	85.7	90.0	
57"	38.3		57.4	76.6	81.2	90.0	
60"	36.4		54.6	72.8	77.1	90.0	
63"	34.6		52.0	69.3	73.5	90.0	
36"	120"		57.6	86.4	90.0	90.0	90.0
39"			53.2	79.8	90.0	90.0	90.0
42"			49.4	74.1	90.0	90.0	90.0
45"			46.1	69.1	90.0	90.0	90.0
48"			43.2	64.8	86.4	90.0	90.0
51"		40.7	61.0	81.3	86.2	90.0	
54"		38.4	57.6	76.8	81.4	90.0	
57"		36.4	54.6	72.8	77.1	90.0	
60"		34.6	51.8	69.3	73.3	90.0	

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)							
NOMINAL DIMS.		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3	
36"	126"	54.9	82.3	90.0	90.0	90.0	
39"		50.6	76.0	90.0	90.0	90.0	
42"		47.0	70.5	90.0	90.0	90.0	
45"		43.9	65.8	87.8	90.0	90.0	
48"		41.1	61.7	82.3	87.2	90.0	
51"		38.7	58.1	77.4	82.1	90.0	
54"		36.6	54.9	73.1	77.5	90.0	
57"		34.6	52.0	69.3	73.5	90.0	
36"		132"	52.4	78.5	90.0	90.0	90.0
39"			48.3	72.5	90.0	90.0	90.0
42"	44.9		67.3	89.8	90.0	90.0	
45"	41.9		62.8	83.8	88.8	90.0	
48"	39.3		58.9	78.5	83.3	90.0	
51"	37.0		55.4	73.9	78.4	90.0	
54"	34.9		52.4	69.8	74.0	90.0	
36"	138"		50.1	75.1	90.0	90.0	90.0
39"			46.2	69.4	90.0	90.0	90.0
42"			42.9	64.4	85.9	90.0	90.0
45"		40.1	60.1	80.1	85.0	90.0	
48"		37.6	56.3	75.1	79.7	90.0	
51"		35.4	53.0	70.7	75.0	90.0	
36"		144"	48.0	72.0	90.0	90.0	90.0
39"			44.3	66.5	88.6	90.0	90.0
42"			41.1	61.7	82.3	87.2	90.0
45"			38.4	57.6	76.8	81.4	90.0
48"	36.0		54.0	72.0	76.3	90.0	



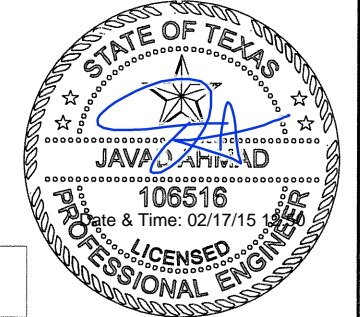
**ANCHORS TYPES:** SEE SHEET 12 FOR DESCRIPTION

C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION  
 C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION  
 C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

D2 = (2) ANCHORS TYPE 'D' AT EACH SIDE OF MULLION  
 D3 = (3) ANCHORS TYPE 'D' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

**ANCHORS**



**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE W14-37YK

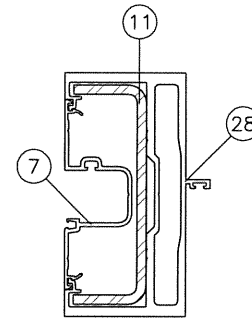
YHS 50 FS ALUMINUM STOREFRONT SYS. (L.M.I.)  
**YK AP AMERICA INC.**  
 1229 HIGHWAY 441 BYPASS  
 DUBLIN, GEORGIA 31021  
 TEL. (478) 277-1955 FAX (478) 277-1978

revisions:	no	date	by	description
date:	09-31-14	scale:	-	
dr. by:	HAMID	chk. by:		
drawing no.	W14-37			
sheet	7 of 15			

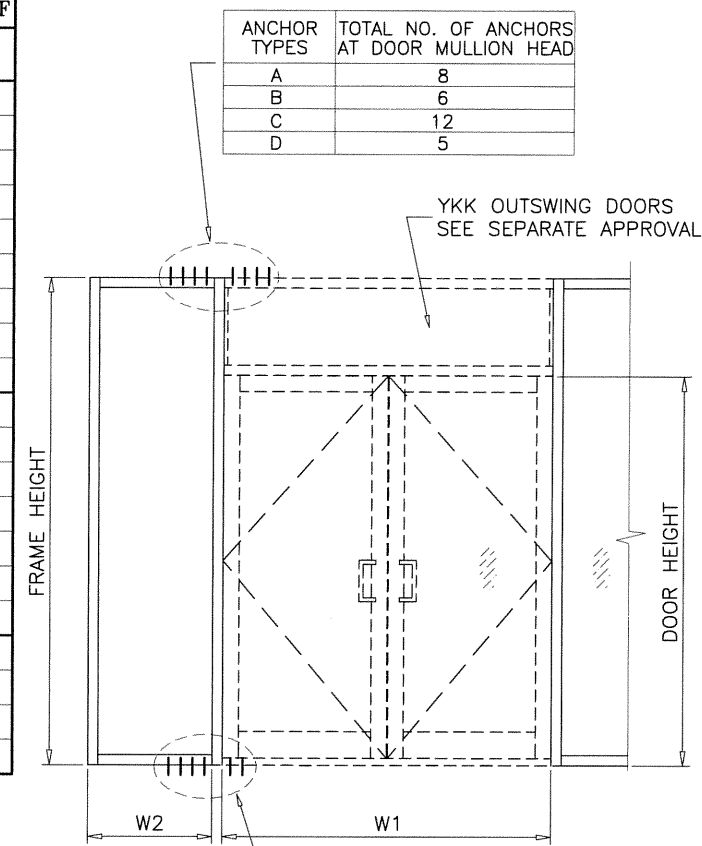
DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				LOADS - PSF	
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	
96	80	72	30	90.0	
			36	90.0	
			42	90.0	
			48	90.0	
			54	90.0	
			57-1/2	90.0	
			60	90.0	
			66	90.0	
		72	90.0		
		84	30	90.0	
			36	90.0	
			42	90.0	
	48		90.0		
	54		90.0		
	57-1/2		90.0		
	96	30	90.0		
		36	90.0		
		42	90.0		
		48	90.0		
		54	90.0		
		57-1/2	90.0		
	102	80	72	30	90.0
				36	90.0
				42	90.0
48				90.0	
54				90.0	
57-1/2				90.0	
84		30	90.0		
		36	90.0		
		42	90.0		
		48	90.0		
		54	90.0		
		57-1/2	90.0		
96	30	90.0			
	36	90.0			
	42	90.0			
	48	90.0			
	54	90.0			
	57-1/2	90.0			
60	89.7				
66	86.2				
72	82.9				

DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				LOADS - PSF	
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	
108	80	72	30	90.0	
			36	90.0	
			42	90.0	
			48	90.0	
			54	90.0	
			57-1/2	90.0	
			60	90.0	
			66	90.0	
		72	90.0		
		84	30	90.0	
			36	90.0	
			42	90.0	
	48		90.0		
	54		90.0		
	57-1/2		90.0		
	96	30	90.0		
		36	90.0		
		42	90.0		
		48	90.0		
		54	89.6		
		57-1/2	87.4		
	114	80	72	30	90.0
				36	90.0
				42	90.0
48				90.0	
54				90.0	
57-1/2				90.0	
84		30	90.0		
		36	90.0		
		42	90.0		
		48	90.0		
		54	90.0		
		57-1/2	88.7		
96	30	90.0			
	36	90.0			
	42	90.0			
	48	88.3			
	54	84.5			

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				LOADS - PSF
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
120	80	72	30	90.0
			36	90.0
			42	90.0
			48	90.0
			54	87.2
			57-1/2	84.7
			60	83.1
			66	79.3
		72	75.8	
		84	30	90.0
			36	90.0
			42	88.2
	48		84.0	
	54		80.2	
	57-1/2		78.1	
	96	30	76.6	
		36	89.0	
		42	84.8	
		48	80.9	
		54	77.4	



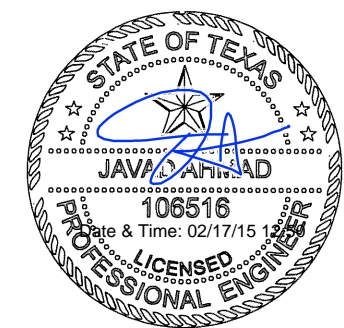
DOOR MULLION



ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD
A	8
B	6
C	12
D	5

ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL
A	6
D	7

DOOR MULLION



**AL-FAROOQ CORPORATION**  
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TEL. (305) 264-8100 FAX. (305) 262-6978

YKK AP ALUMINUM STOREFRONT SYS. (L.M.I.)

**YKK AP AMERICA INC.**  
1229 HIGHWAY 441 BYPASS  
DUBLIN, GEORGIA 31021  
TEL.(478) 277-1955 FAX(478) 277-1978

STORE W14-37YKK

revisions:	no	date	by	description

date: 09-31-14

scale: -

dr. by: HAMID

chk. by:

drawing no.

**W14-37**

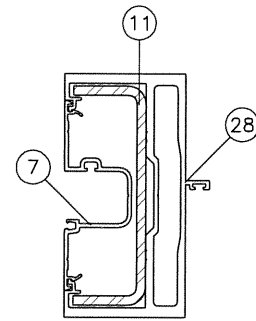
sheet 8 of 15



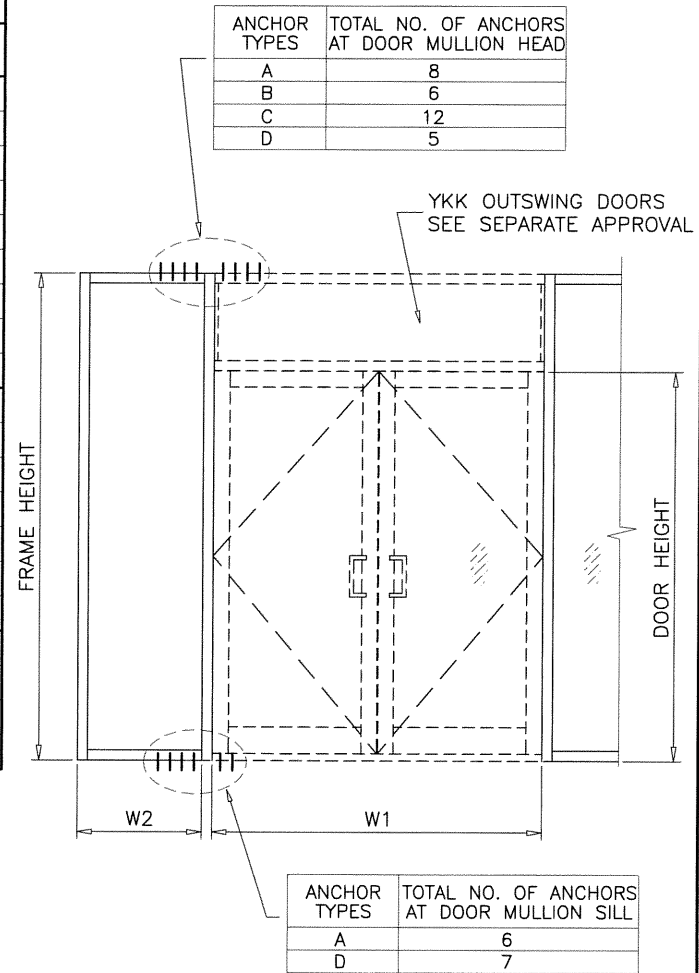
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NOMINAL DIMS.				LOADS - PSF	
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	
96	84	72	30	90.0	
			36	90.0	
			42	90.0	
			48	90.0	
			54	90.0	
			57-1/2	90.0	
		60	90.0		
		66	90.0		
		72	90.0		
		84	30	90.0	
			36	90.0	
			42	90.0	
	48		90.0		
	54		90.0		
	57-1/2		90.0		
	96	30	90.0		
		36	90.0		
		42	90.0		
		48	90.0		
		54	90.0		
		57-1/2	90.0		
	102	84	72	30	90.0
				36	90.0
				42	90.0
48				90.0	
54				90.0	
57-1/2				90.0	
60		90.0			
66		90.0			
72		90.0			
84		30	90.0		
		36	90.0		
		42	90.0		
	48	90.0			
	54	90.0			
	57-1/2	90.0			
96	30	90.0			
	36	90.0			
	42	90.0			
	48	90.0			
	54	90.0			
	57-1/2	90.0			
60	88.5				
66	85.1				
72	82.0				

DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				LOADS - PSF	
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	
108	84	72	30	90.0	
			36	90.0	
			42	90.0	
			48	90.0	
			54	90.0	
			57-1/2	90.0	
		60	90.0		
		66	90.0		
		72	90.0		
		84	30	90.0	
			36	90.0	
			42	90.0	
	48		90.0		
	54		90.0		
	57-1/2		90.0		
	96	30	90.0		
		36	90.0		
		42	90.0		
		48	90.0		
		54	88.4		
		57-1/2	86.3		
	114	84	72	30	90.0
				36	90.0
				42	90.0
48				90.0	
54				90.0	
57-1/2				90.0	
60		90.0			
66		90.0			
72		86.7			
84		30	90.0		
		36	90.0		
		42	90.0		
	48	90.0			
	54	90.0			
	57-1/2	89.4			
96	30	90.0			
	36	90.0			
	42	90.0			
	48	88.8			
	54	85.0			

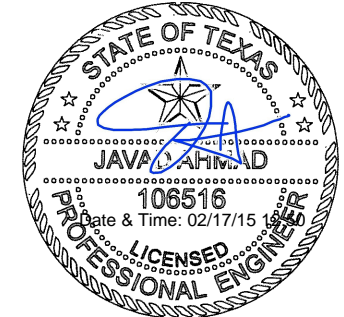
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NOMINAL DIMS.				LOADS - PSF
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
120	84	72	30	90.0
			36	90.0
			42	90.0
			48	90.0
			54	89.3
			57-1/2	86.7
		60	84.9	
		66	80.9	
		72	77.3	
		84	30	90.0
			36	90.0
			42	90.0
	48		86.2	
	54		82.2	
	57-1/2		80.0	
	96	30	90.0	
		36	87.5	
		42	83.3	
		48	79.6	



DOOR MULLION



DOOR MULLION



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STORE W14-37YKK

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YHS 50 FS ALUMINUM STOREFRONT SYS. (L.M.I.)

**YKK AP AMERICA INC.**  
1229 HIGHWAY 441 BYPASS  
DUBLIN, GEORGIA 31021  
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YKK AP

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no	date	by	description

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date: 09-31-14

scale: -

dr. by: HAMID

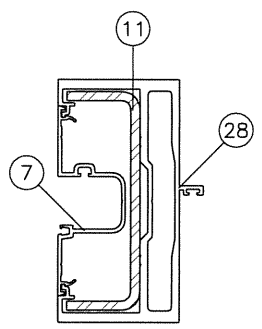
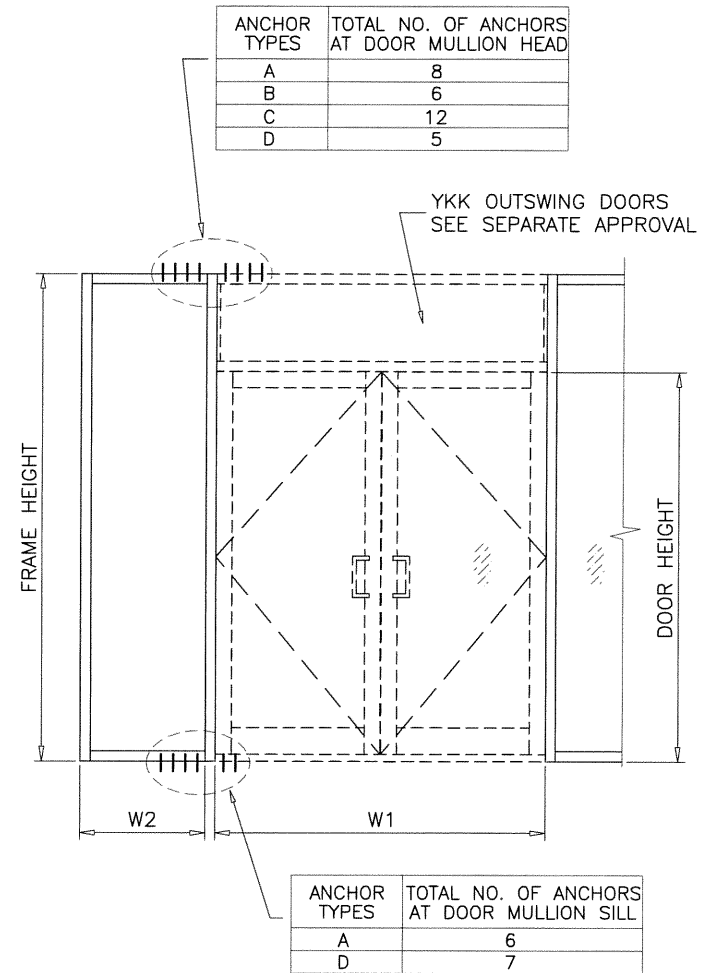
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sheet 9 of 15

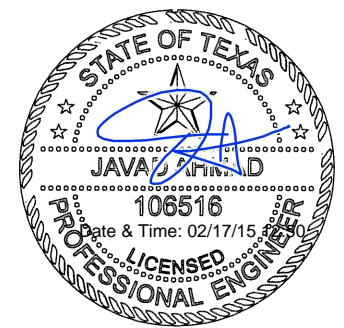
DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				LOADS - PSF	
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	
102	90	72	30	90.0	
			36	90.0	
			42	90.0	
			48	90.0	
			54	90.0	
			57-1/2	90.0	
		60	90.0		
		66	90.0		
		72	90.0		
		84	30	90.0	
			36	90.0	
			42	90.0	
	48		90.0		
	54		90.0		
	57-1/2		90.0		
	96	30	90.0		
		36	90.0		
		42	90.0		
		48	90.0		
		54	90.0		
		57-1/2	88.3		
	108	90	72	30	90.0
				36	90.0
				42	90.0
48				90.0	
54				90.0	
57-1/2				90.0	
60		90.0			
66		90.0			
72		89.3			
84		30	90.0		
		36	90.0		
		42	90.0		
	48	90.0			
	54	90.0			
	57-1/2	90.0			
96	30	89.9			
	36	86.2			
	42	82.8			
	48	90.0			
	54	86.8			
	60	84.8			
60	83.3				

DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				LOADS - PSF	
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	
114	90	72	30	90.0	
			36	90.0	
			42	90.0	
			48	90.0	
			54	90.0	
			57-1/2	90.0	
		60	90.0		
		66	89.4		
		72	85.5		
		84	30	90.0	
			36	90.0	
			42	90.0	
	48		90.0		
	54		90.0		
	57-1/2		87.9		
	96	30	90.0		
		36	90.0		
		42	90.0		
		48	87.1		
		54	83.5		
		57-1/2	89.7		
	120	90	72	30	90.0
				36	90.0
				42	90.0
48				90.0	
54				90.0	
57-1/2				89.7	
60		87.8			
66		83.5			
72		79.7			
84		30	90.0		
		36	90.0		
		42	90.0		
	48	89.8			
	54	85.4			
	57-1/2	83.0			
96	30	90.0			
	36	90.0			
	42	87.2			
	48	83.1			
	54	86.8			
	60	84.8			



DOOR MULLION

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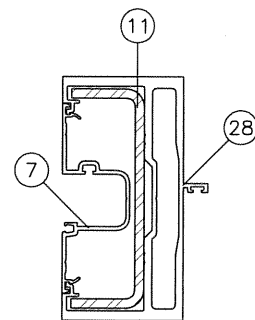
YHS 50 FS ALUMINUM STOREFRONT SYS. (L.M.I.)  
**YKK AP AMERICA INC.**  
 1229 HIGHWAY 441 BYPASS  
 DUBLIN, GEORGIA 31021  
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revisions:	no	date	by	description
date:	09-31-14	scale:	-	dr. by: HAMID
chk. by:				
drawing no.	W14-37			
sheet	10 of 15			

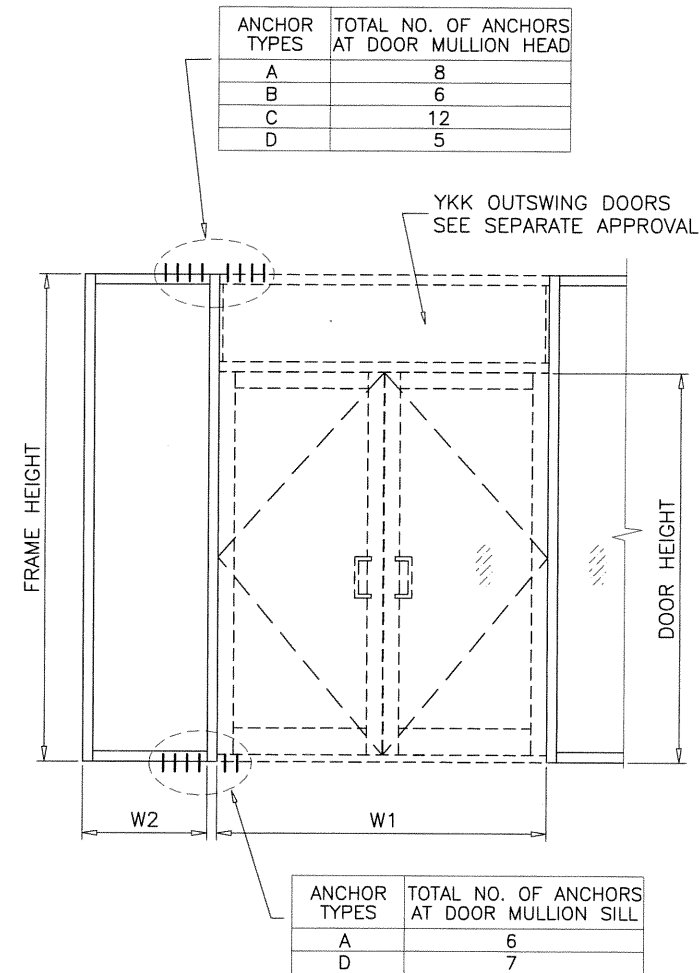


DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				LOADS - PSF	
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	
108	96	72	30	90.0	
			36	90.0	
			42	90.0	
			48	90.0	
			54	90.0	
			57-1/2	90.0	
			60	90.0	
			66	90.0	
		72	88.0		
		84	30	90.0	
			36	90.0	
			42	90.0	
	48		90.0		
	54		90.0		
	57-1/2		90.0		
	96	30	88.4		
		36	84.9		
		42	81.5		
		48	90.0		
		54	88.9		
		57-1/2	85.2		
	114	96	72	30	90.0
				36	90.0
				42	90.0
48				90.0	
54				90.0	
57-1/2				90.0	
60				90.0	
66				88.1	
72			84.4		
84			30	90.0	
			36	90.0	
			42	90.0	
		48	90.0		
		54	88.8		
		57-1/2	86.5		
96		30	85.0		
		36	81.5		
		42	90.0		
		48	89.4		
		54	85.5		
		57-1/2	82.0		

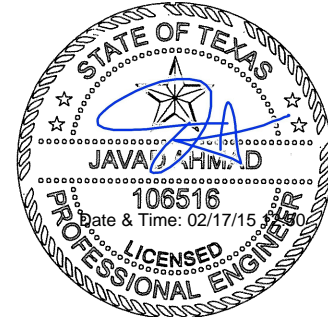
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				LOADS - PSF
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
120	96	72	30	90.0
			36	90.0
			42	90.0
			48	90.0
			54	90.0
			57-1/2	90.0
			60	88.7
			66	84.7
		72	81.0	
		84	30	90.0
			36	90.0
			42	90.0
	48		89.5	
	54		85.5	
	57-1/2		83.3	
	96	30	81.7	
		36	90.0	
		42	90.0	
		48	86.2	
		54	82.5	
		57-1/2	82.5	



DOOR MULLION



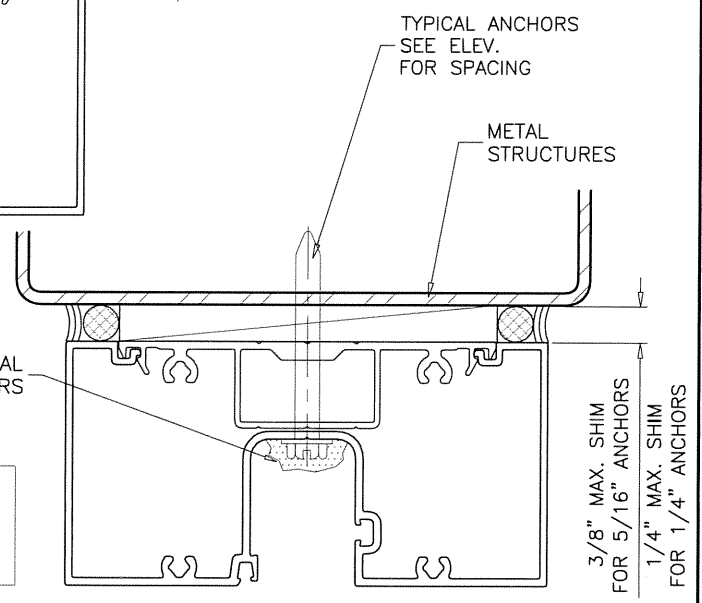
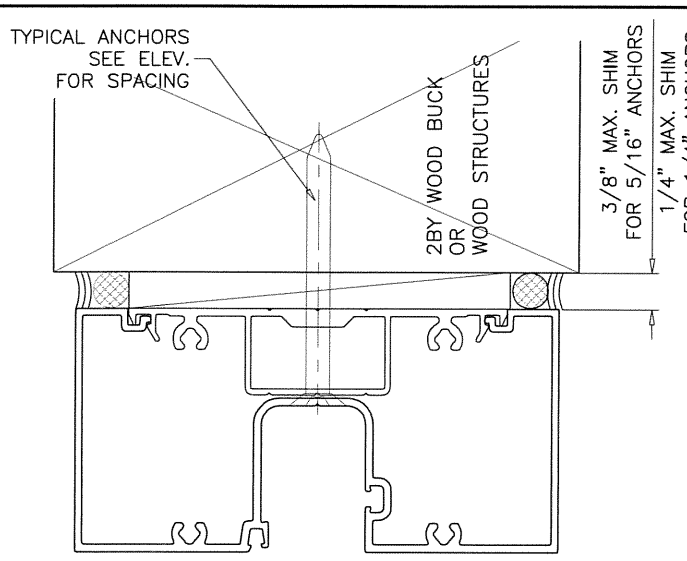
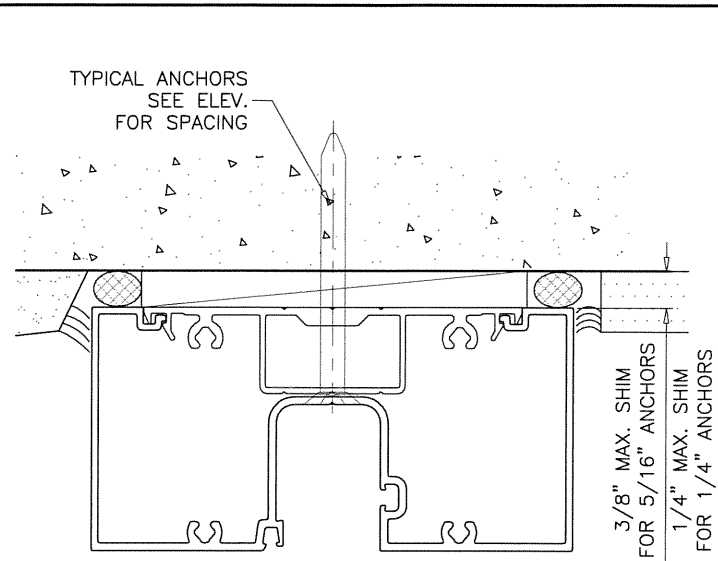
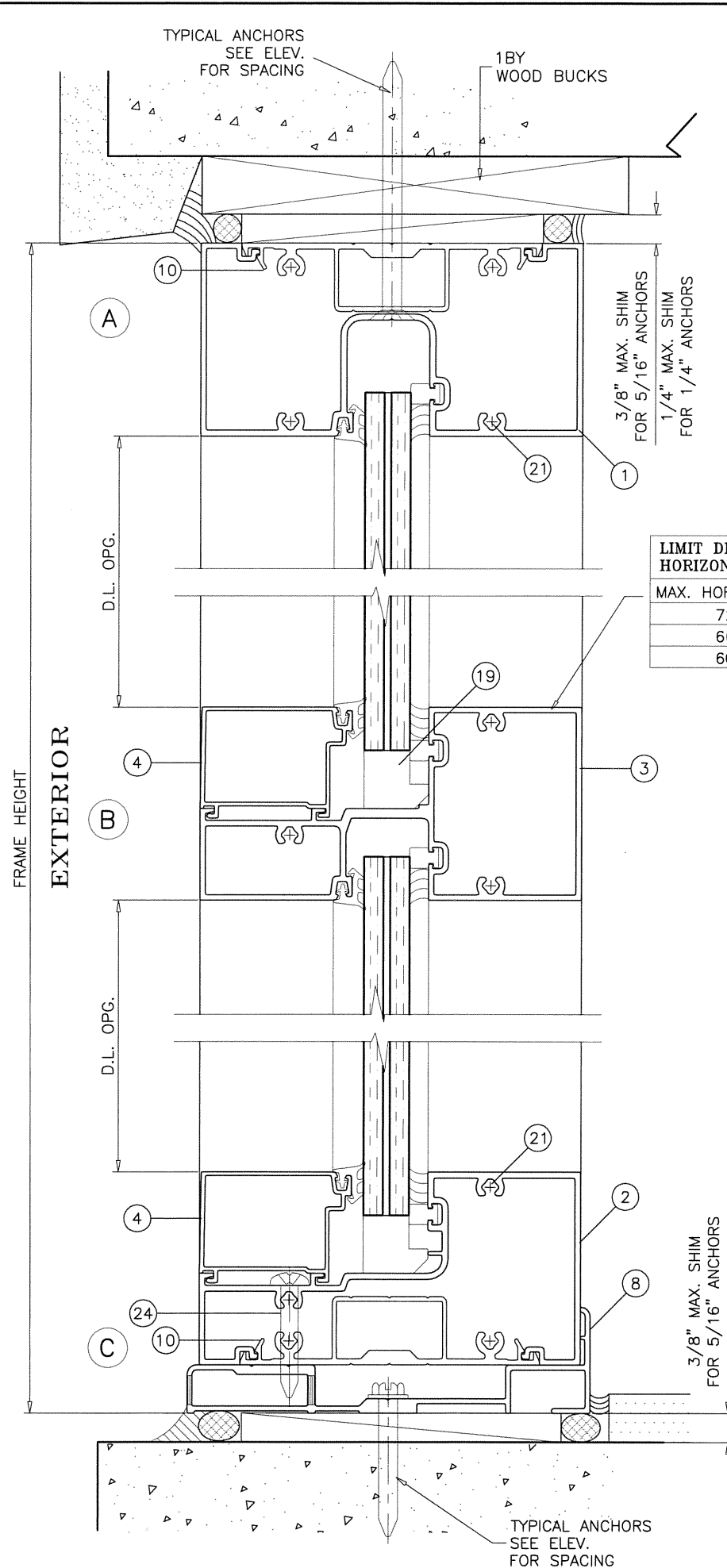
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YHS 50 FS ALUMINUM STOREFRONT SYS. (L.M.I.)  
**YKK AP AMERICA INC.**  
 1229 HIGHWAY 441 BYPASS  
 DUBLIN, GEORGIA 31021  
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revisions:	no	date	by	description
date:	09-31-14	scale:	-	
dr. by:	HAMID	chk. by:		
drawing no.	W14-37			
sheet	11 of 15			



**LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS**

MAX. HORIZ. SPAN	MAX. DESIGN LOADS
72"	57 PSF
66"	72 PSF
60"	90 PSF

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

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**'A' - 5/16" DIA. ULTRACON BY 'ELCO'** (Fu=177 KSI, Fy=155 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)  
 DIRECTLY INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

**'B' - 5/16" DIA. TEKS/DRIL-FLEX SELF DRILLING SCREWS** (GRADE 5 CRS)  
 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)

**TYPICAL EDGE DISTANCE**

INTO CONCRETE AND MASONRY = 3" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.

**'C' - 1/4" DIA. TAPCON (STL. OR 410 ST. STL.) BY 'ITW'** (Fu=125 KSI, Fy=100 KSI)  
**1/4" DIA. ULTRACON BY 'ELCO'** (Fu=177 KSI, Fy=155 KSI)  
**1/4" DIA. ULTRACON SS4 BY 'ELCO'** (Fu=190 KSI, Fy=164 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)  
 DIRECTLY INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

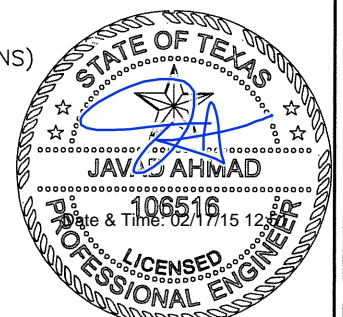
**'C1' - 1/4" DIA. ULTRACON SS4 BY 'ELCO'** (Fu=190 KSI, Fy=164 KSI)  
 DIRECTLY INTO MASONRY  
 1-1/4" MIN. EMBED INTO MASONRY (JAMBS)

**'D' - 1/4" DIA. TEKS/DRIL-FLEX SELF DRILLING SCREWS** (GRADE 5 CRS)  
**1/4" DIA. BI-FLEX ST. STL. 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)

**TYPICAL EDGE DISTANCE**

INTO CONCRETE AND MASONRY = 2-1/2" MIN. (ULTRACONS)  
 INTO CONCRETE AND MASONRY = 4" MIN. (TAPCONS)  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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 STORE \W14-37YKK

YHS 50 FS ALUMINUM STOREFRONT SYS. (L.M.I.)  
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revisions:  
 no. date by description

date: 09-31-14  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W14-37**  
 sheet 12 of 15

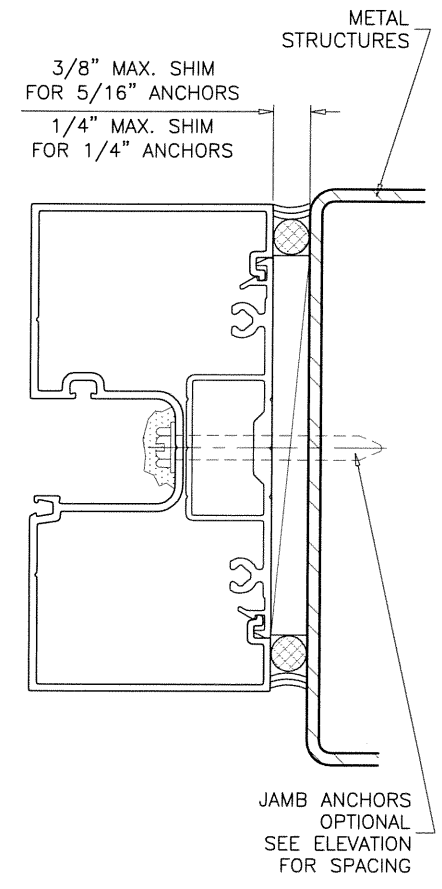
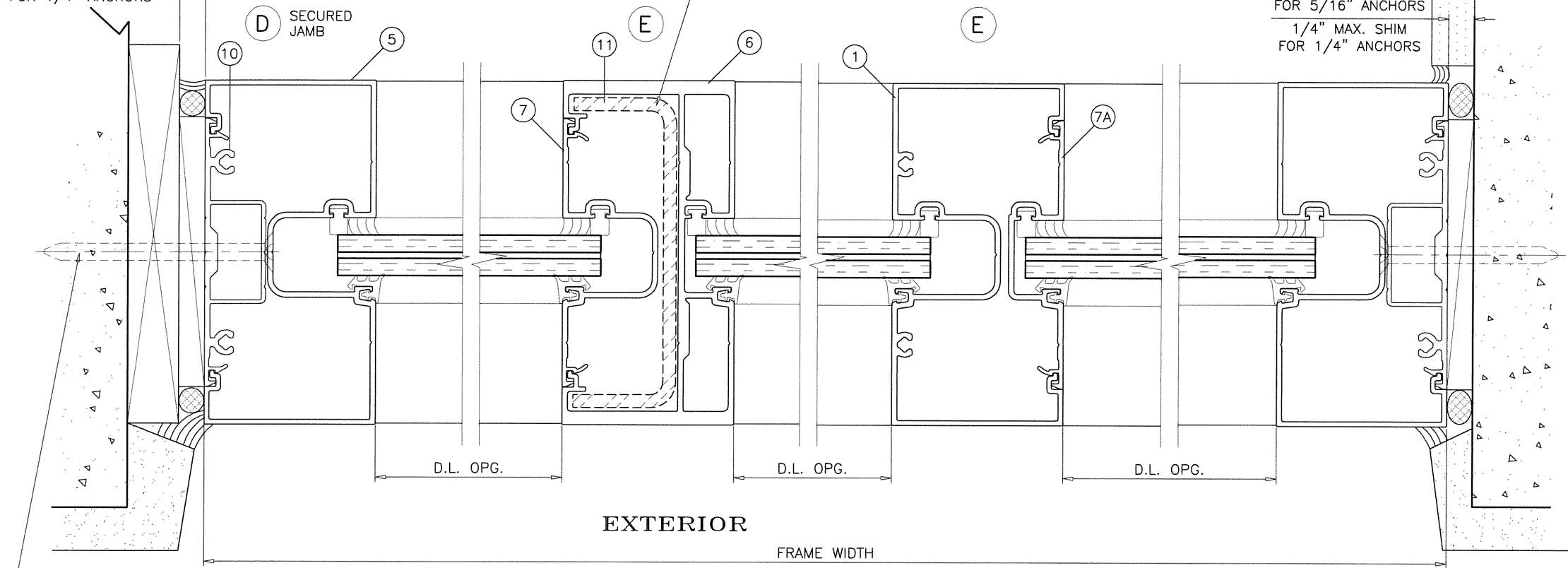


3/8" MAX. SHIM FOR 5/16" ANCHORS  
1/4" MAX. SHIM FOR 1/4" ANCHORS

STEEL REINFORCING OPTIONAL  
SEE SHEET 5 FOR CAPACITY

3/8" MAX. SHIM FOR 5/16" ANCHORS  
1/4" MAX. SHIM FOR 1/4" ANCHORS

3/8" MAX. SHIM FOR 5/16" ANCHORS  
1/4" MAX. SHIM FOR 1/4" ANCHORS



JAMB ANCHORS OPTIONAL  
SEE ELEVATION FOR SPACING

JAMB ANCHORS OPTIONAL  
SEE ELEVATION FOR SPACING

EXTERIOR

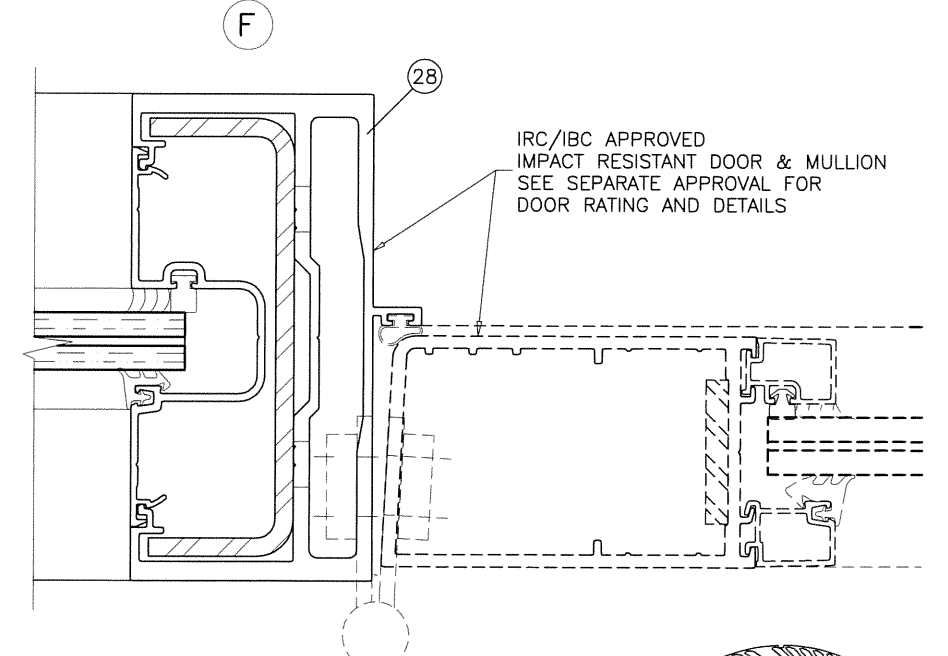
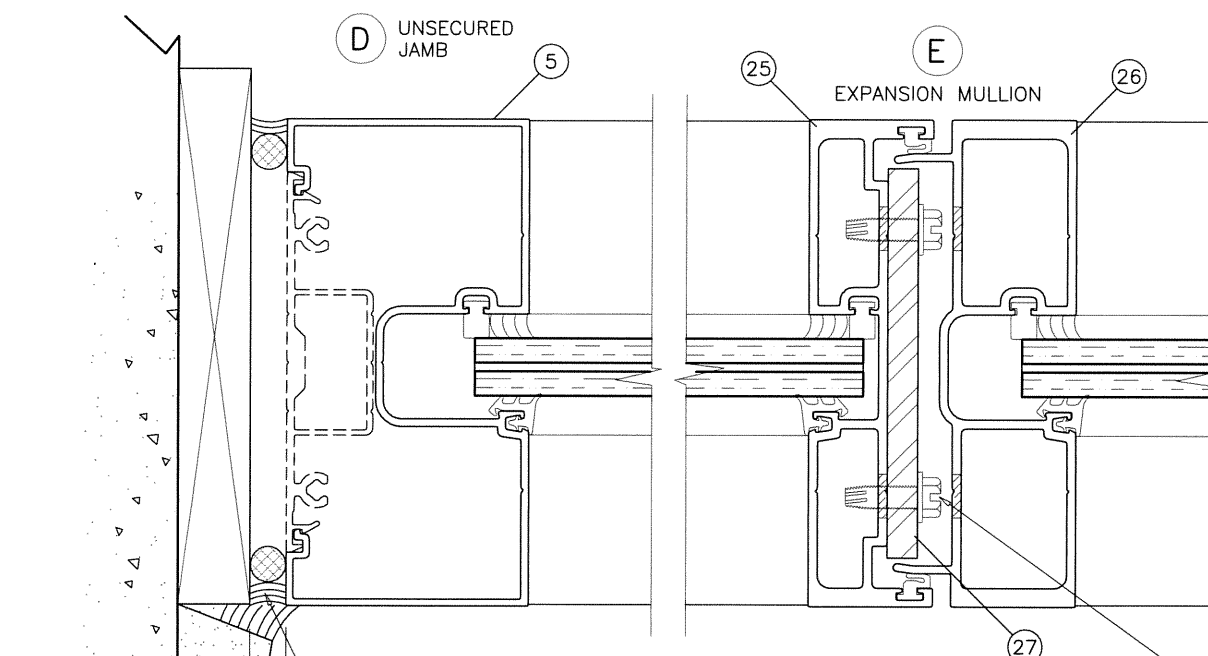
FRAME WIDTH

D UNSECURED JAMB

E EXPANSION MULLION

F

IRC/IBC APPROVED  
IMPACT RESISTANT DOOR & MULLION  
SEE SEPARATE APPROVAL FOR  
DOOR RATING AND DETAILS



SILICONE DOW CORNING 795  
DEPTH = 3/8" MIN.

MIN. & MAX. GAP  
SEE CHART

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	1/4"	3/4"
96"	5/16"	3/4"
120"	3/8"	3/4"
144"	7/16"	3/4"

1/4-20 X 3/4"  
HWH MS F TYPE  
AT 9" O.C. STAGGERED

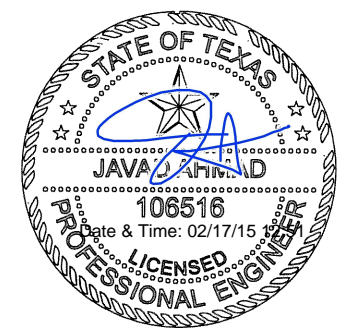
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE W14-37YKK

YHS 50 FS ALUMINUM STOREFRONT SYS. (L.M.I.)  
**YKK AP**  
YKK AP AMERICA INC.  
1229 HIGHWAY 441 BYPASS  
DUBLIN, GEORGIA 31021  
TEL.(478) 277-1955 FAX(478) 277-1978

revisions:

no	date	by	description

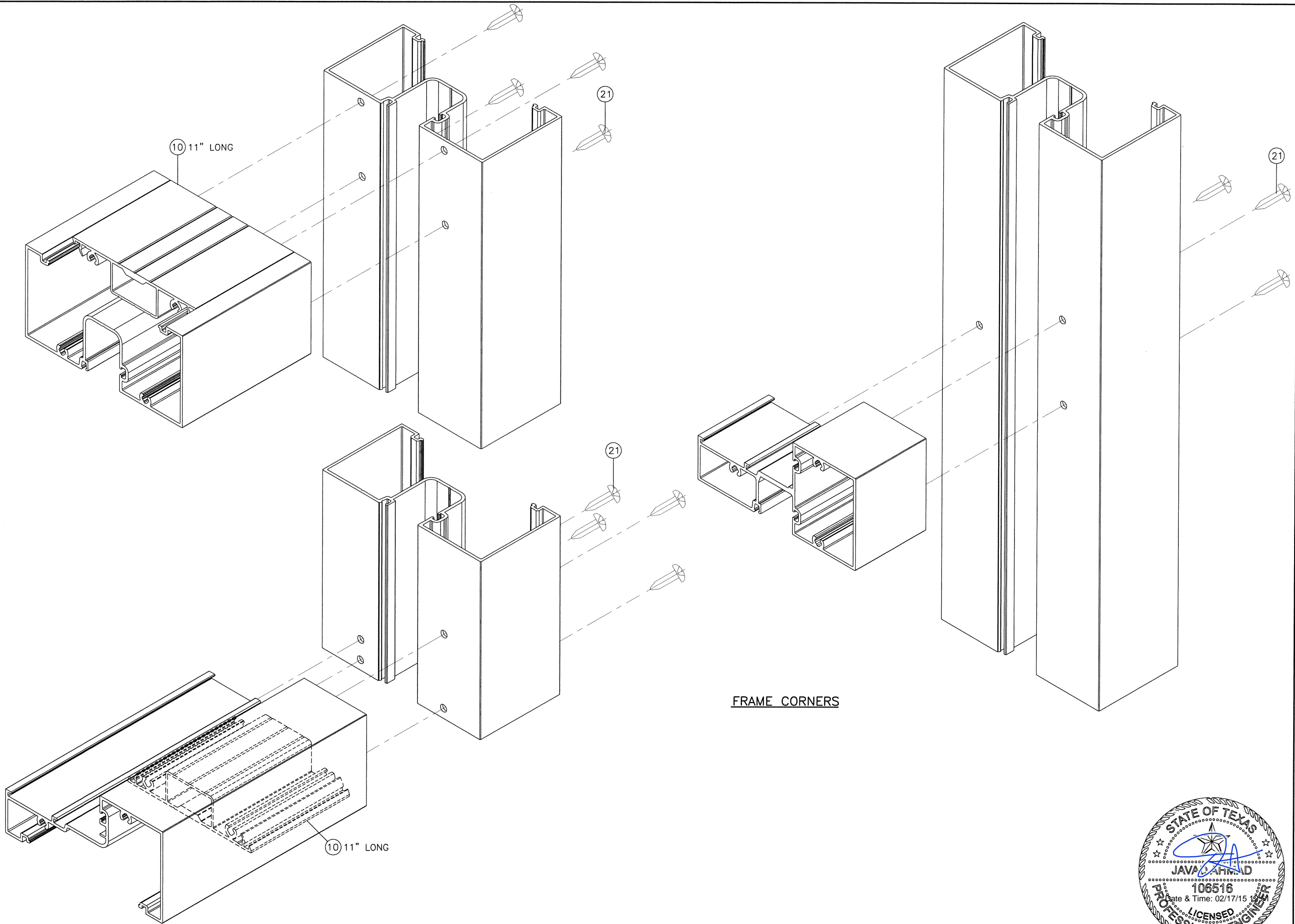
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scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:



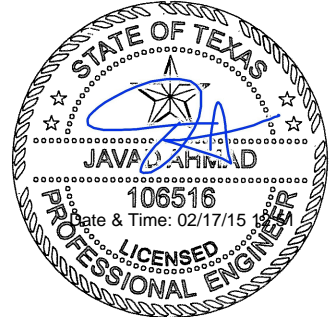
drawing no.  
**W14-37**  
sheet 13 of 15







FRAME CORNERS




  
**AL-FAROOQ CORPORATION**  
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**W14-37**  
 sheet 15 of 15