PRODUCT APPROVAL DRAWINGS
CG500 STORE FRONT WITH MULTIPLE INFILLS
FOR USE IN HURRICANE ZONES
REQUIRING LARGE MISSILE IMPACT PROTECTION
(WET GLAZED/DRY GLAZED)

GENERAL NOTES:

TEST STANDARDS
AIR–TAS202 AND ASTM E283
WATER–TAS202 AND ASTM E331
STATIC–TAS202 AND ASTM E330
IMPACT–TAS201 AND ASTM E1886/E1996
CYCLIC–TAS203 AND ASTM E1886/E1996

DESIGN PRESSURE LISTED IN THIS DRAWING IS ALLOWABLE DESIGN LOAD.

WATER INFILTRATION: 15 PSF
AIR INFILTRATION: 6.24 PSF
TYPICAL GLASS BITE IS 9/16" UNLESS OTHERWISE NOTED
1/4" MAX, SHIM SPACE @ PERIMETER UNLESS OTHERWISE NOTED
ALUMINUM EXTRUSIONS ARE 6063–T6 ALLOY AND TEMPER

THIS PRODUCT IS RATED FOR LARGE & SMALL MISSILE IMPACT INCLUDING HIGH VELOCITY HURRICANE ZONE. SHUTTERS ARE NOT REQUIRED.
THE PRODUCT HAS BEEN DESIGNED AND TESTED FOR TO COMPLY WITH THE REQUIREMENT OF THE 2006 INTERNATIONAL BUILDING CODE & 2006 INTERNATIONAL RESIDENTIAL CODE.

MATERIALS WHICH COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE PAINTED OR FINISHED TO PREVENT CORROSION.

ENTRANCE DOORS FOR CG500 FRAMING SYSTEM ARE SHOWN ON THIS SUBMISSION. THE LOWER DESIGN PRESSURE OF WINDOW WALL OR DOOR WILL GOVERN.

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.

ABBREVIATIONS:
D.L.O. = DAY LIGHT OPENING
TYP. = TYPICAL
D.O.W. = DOOR OPENING WIDTH
D.O.H. = DOOR OPENING HEIGTH

SHEET	INDEX TO DRAWINGS	SUBSTRATE
1	INDEX TO DRAWINGS AND NOTES	
2	FRAMING ELEVATIONS – LIGHT MULLION WITH STEEL & GLAZING OPTIONS	STL/CONC/WOOD
3	FRAMING ELEVATIONS – LIGHT/HEAVY MULLION W/O STEEL	STL/CONC/WOOD
4	FRAMING ELEVATIONS – DOOR W/ TRANSOM INSIDE CG500 STOREFRONT	
5	FRAMING ELEVATIONS – DOOR W/O TRANSOM INSIDE STOREFRONT	
6	FRAMING DETAILS	STL/CONC/WOOD
7	FRAMING DETAILS	CONCRETE
8	FRAMING DETAILS	STEEL
9	ANCHOR TYPES AND DETAILS.	WOOD
10	ISOMETRIC FRAME DETAILS	
11	ISOMETRIC FRAME DETAILS	
12	PROFILE DRAWINGS	
13	BILL OF MATERIAL	

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CG500 STORE FRONT SYSTEM
W/ MULTIPLE INFILLS
FOR HURRICANE ZONES
(WET/DRY GLAZED)

Resistor
PRODUCT SERIES

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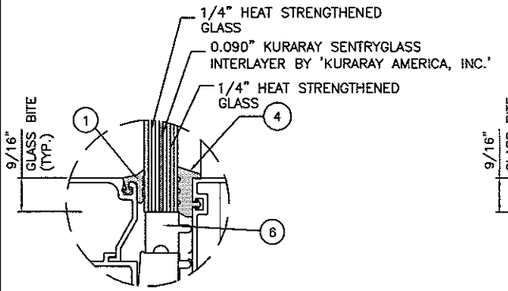
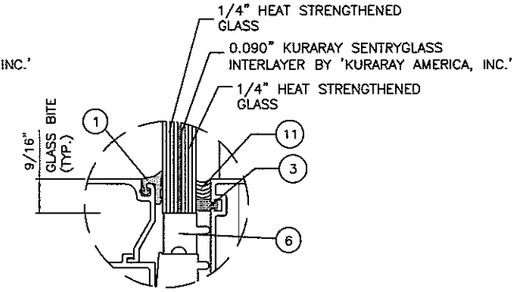


GLASS TYPE "A"
DRY GLAZED



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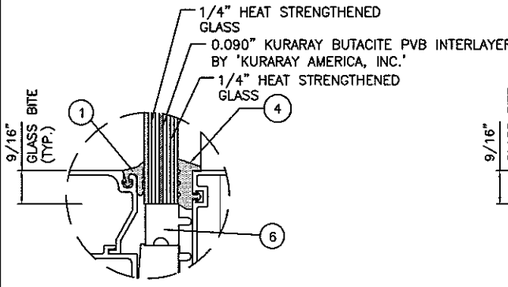
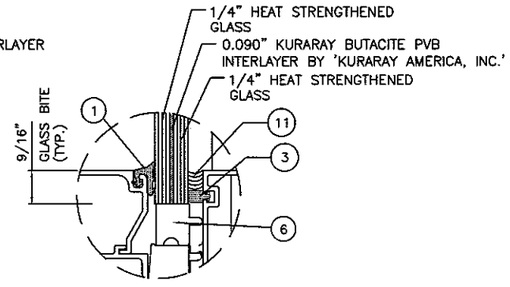
WET GLAZED



GLASS TYPE "B"
DRY GLAZED



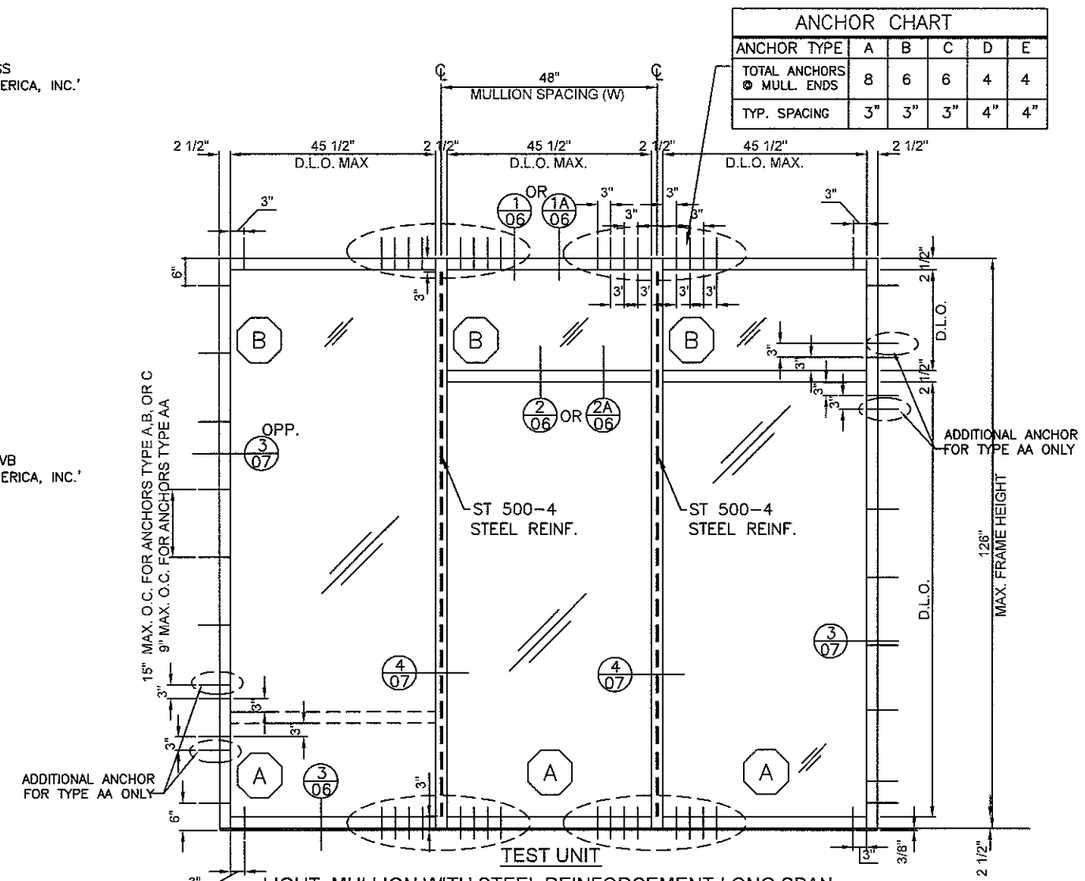
GLASS TYPE "B1"
WET GLAZED

CG500 SYSTEM GLASS SCHEDULE				
GLASS TYPE	GLAZING METHOD	MAXIMUM DLO SIZE (INCHES)	MAXIMUM SQUARE FEET	MAXIMUM DESIGN LOAD (PSF)
A	DRY GLAZED & WET GLAZED	45-1/2 X 96	30.33	+70/-80
B	DRY GLAZED & WET GLAZED	45-1/2 X 22 1/2	7.11	+70/-80
	WET GLAZED	45-1/2 X 84	26.54	+65/-65
	WET GLAZED	45-1/2 X 96	30.33	+60/-60

NOTE: 1. GLASS AREA NOT TO EXCEED TESTED GLASS AREA.
2. DESIGN LOAD GOVERN BY TESTED LOAD.

NOTES:
1. GLASS SIZE = D.L.O. +1 1/8"
2. HORIZONTAL MULLION (DETAIL 2/6 OR 2A/6 OPTIONAL) - OPTIONAL AT ANY BAY
3. HEAD (DETAIL 1/8 OR 1A/8 OPTIONAL) - OPTIONAL AT ANY BAY
4. MAX. ALLOWABLE DEFLECTION = L/180

ANCHOR CHART					
ANCHOR TYPE	A	B	C	D	E
TOTAL ANCHORS @ MULL. ENDS	8	6	6	4	4
TYP. SPACING	3"	3"	3"	4"	4"



TEST UNIT

LIGHT MULLION WITH STEEL REINFORCEMENT-LONG SPAN

DESIGN LOAD CAPACITY-PSF		
DIMENSIONS (IN.)		LIGHT MULLION WITH STL REINF.
WIDTH (W)	FRAME HEIGHT	
48	126	+70/-80
54	112	+70/-80
60	100	+70/-80

INSTRUCTIONS:

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2 GLASS TYPE SHOWN ON ELEVATIONS ARE AS TESTED. SEE CHART ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS TYPE AND SIZE.

STEP 3 CHECK MULLION AND ANCHOR CAPACITY SEE SHEET 3 THRU 5. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 4 THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

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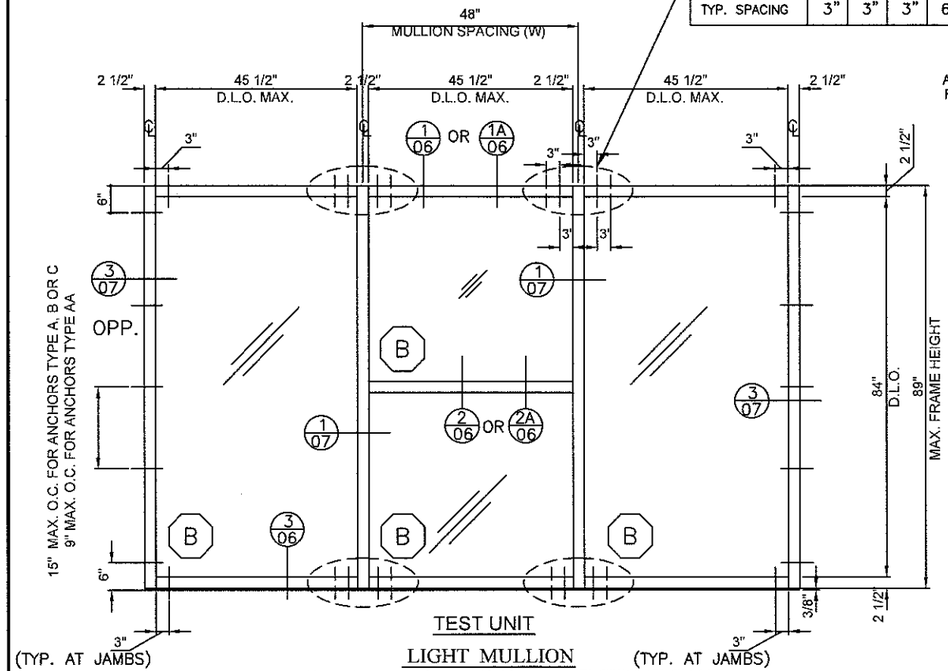
ANCHOR CHART					
ANCHOR TYPE	A	B	C	D	E
TOTAL ANCHORS @ MULL. ENDS	4	4	4	2	2
TYP. SPACING	3"	3"	3"	6"	6"



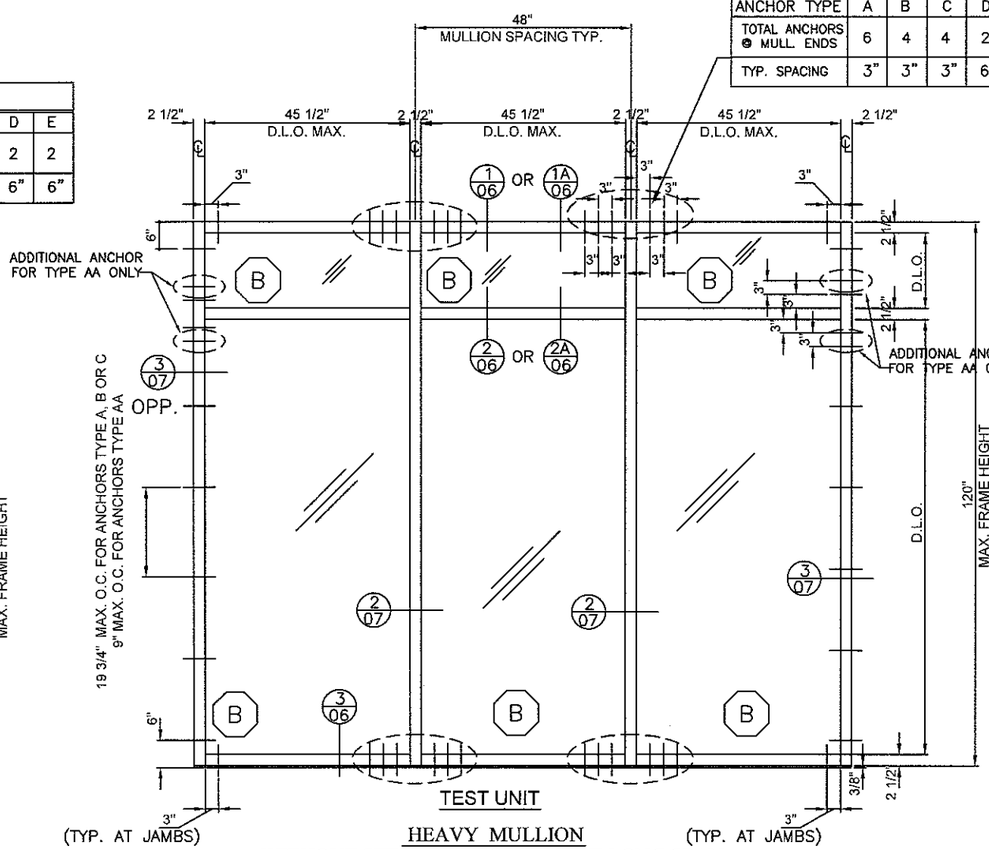
TEST UNIT

LIGHT MULLION

WITHOUT STEEL REINFORCEMENT-SHORT SPAN

DESIGN LOAD CAPACITY–PSF		
DIMENSIONS (IN.)		LIGHT MULLION WITHOUT REINF.
WIDTH (W)	FRAME HEIGHT	
48	89	+65/–65
54	78	+65/–65
60	72	+65/–65

ANCHOR CHART					
ANCHOR TYPE	A	B	C	D	E
TOTAL ANCHORS @ MULL. ENDS	6	4	4	2	2
TYP. SPACING	3"	3"	3"	6"	6"



TEST UNIT

HEAVY MULLION

WITHOUT STEEL REINFORCEMENT-LONG SPAN

DESIGN LOAD CAPACITY–PSF		
DIMENSIONS (IN.)		HEAVY MULLION WITHOUT REINF.
WIDTH (W)	FRAME HEIGHT	
48	120	+60/–60
54	106	+60/–60
60	96	+60/–60

NOTES:
1. GLASS SIZE = D.L.O. +1 1/8"
2. HORIZONTAL MULLION (DETAIL 2/6 OR 2A/6 OPTIONAL) – OPTIONAL AT ANY BAY
3. HEAD (DETAIL 1/8 OR 1/8 OPTIONAL) – OPTIONAL AT ANY BAY
4. MAX. ALLOWABLE DEFLECTION = L/180

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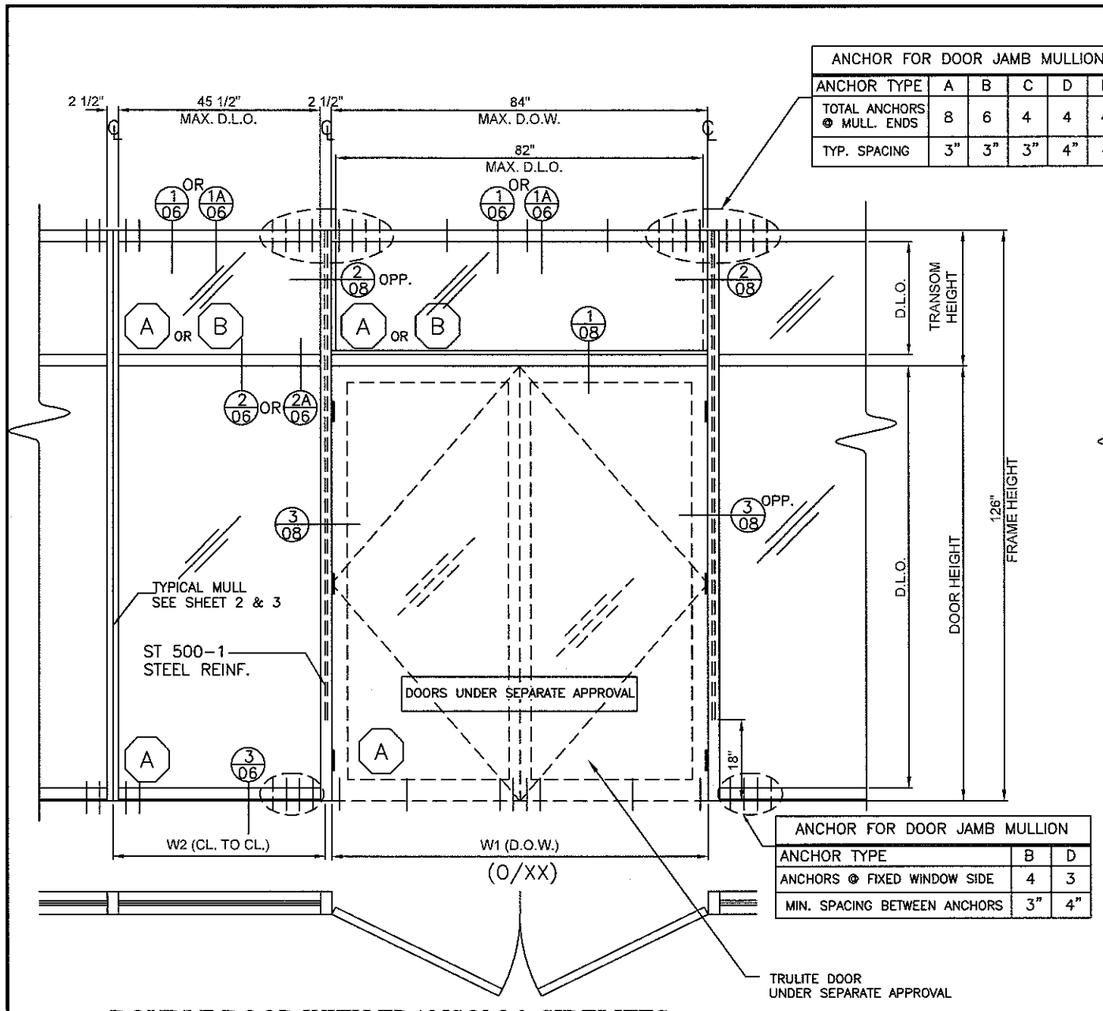
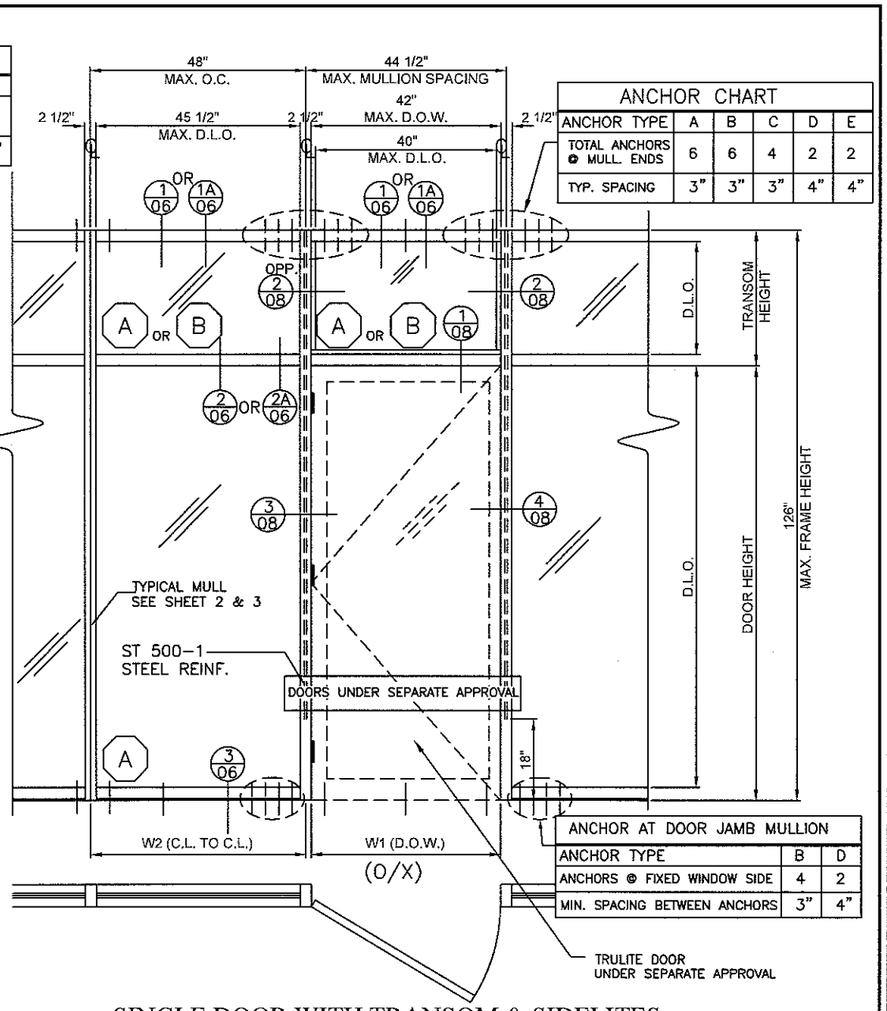


ANCHOR FOR DOOR JAMB MULLION					
ANCHOR TYPE	A	B	C	D	E
TOTAL ANCHORS @ MULL. ENDS	8	6	4	4	4
TYP. SPACING	3"	3"	3"	4"	4"

ANCHOR FOR DOOR JAMB MULLION		
ANCHOR TYPE	B	D
ANCHORS @ FIXED WINDOW SIDE	4	3
MIN. SPACING BETWEEN ANCHORS	3"	4"

DOUBLE DOOR WITH TRANSOM & SIDELITES

DOOR JAMB MULLION CAPACITY				
FRAME HEIGHT	SIDELITE WIDTH	DOOR WIDTH	DOOR HEIGHT	DESIGN LOAD
FH(IN.)	W2(IN.)	W1(IN.)	A(IN.)	(PSF)
126	48	84	84	64.7
			90	67.3
			96	70.0
126	48	72	84	69.8
			90	70.0
			96	70.0
120	54	84	84	69.8
			90	70.0
			96	70.0
120	54	72	84	70.0
			90	70.0
			96	70.0



ANCHOR CHART					
ANCHOR TYPE	A	B	C	D	E
TOTAL ANCHORS @ MULL. ENDS	6	6	4	2	2
TYP. SPACING	3"	3"	3"	4"	4"

ANCHOR AT DOOR JAMB MULLION		
ANCHOR TYPE	B	D
ANCHORS @ FIXED WINDOW SIDE	4	2
MIN. SPACING BETWEEN ANCHORS	3"	4"

SINGLE DOOR WITH TRANSOM & SIDELITES

DOOR JAMB MULLION CAPACITY				
FRAME HEIGHT	SIDELITE WIDTH	DOOR WIDTH	DOOR HEIGHT	DESIGN LOAD
FH(IN.)	W2(IN.)	W1(IN.)	A(IN.)	(PSF)
126	48	42	84	70.0
			90	70.0
			96	70.0
126	48	42	84	70.0
			90	70.0
			96	70.0
120	54	42	84	70.0
			90	70.0
			96	70.0
120	54	42	84	70.0
			90	70.0
			96	70.0

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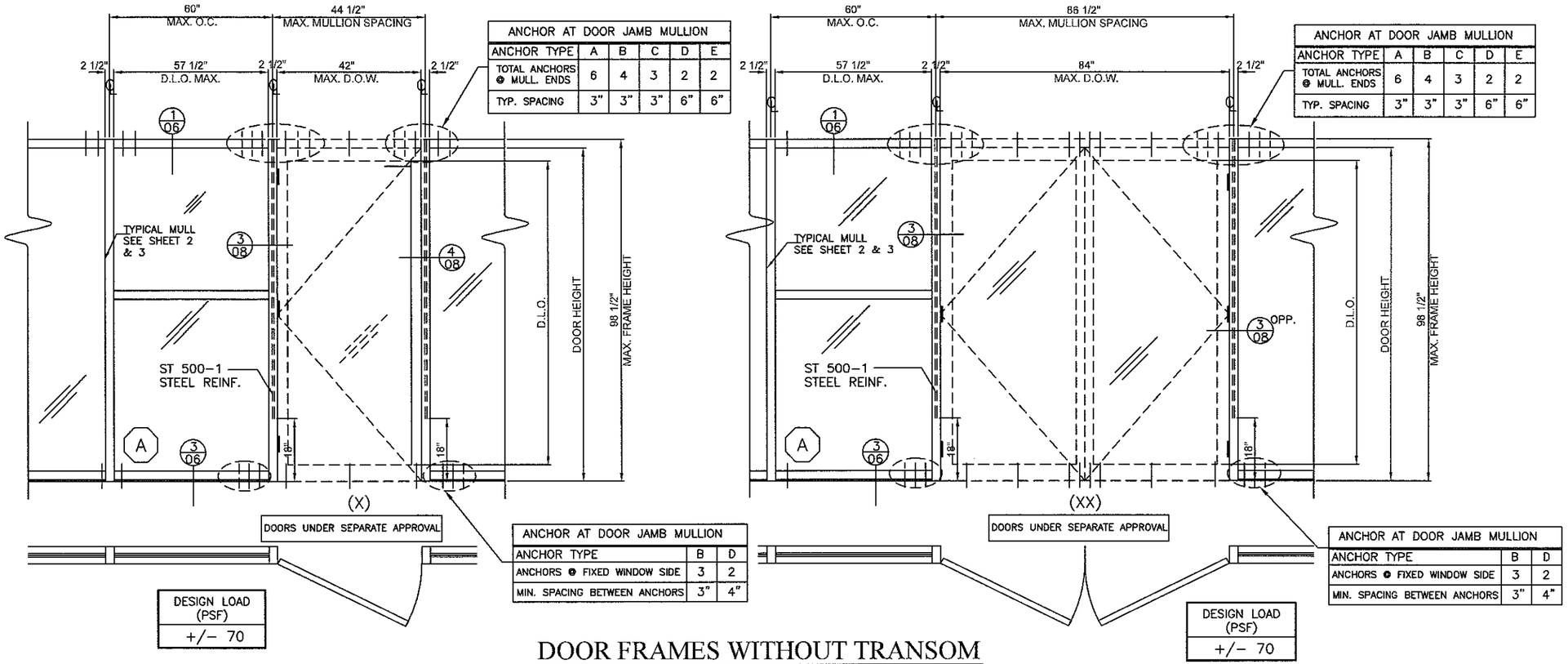

DOOR FRAMES WITHOUT TRANSOM
-WITH SIDELITE-

NOTES:
1. THIS SYSTEM WORKS WITH APPROVED ENTRANCE DOORS.
2. DOOR SERIES UNDER SEPARATE PRODUCT APPROVALS.
   THE LOWER DESIGN PRESSURE OF WINDOW WALL OR DOOR WILL GOVERN.
3. FOR DOOR DETAILS REFER TO DOOR PRODUCT APPROVAL.

TEST PARAMETERS:
1. DESIGN PRESSURE = +70/-70 PSF
2. AIR TEST AT 6.24 PSF
3. MAX. ALLOWABLE DEFLECTION = L/180

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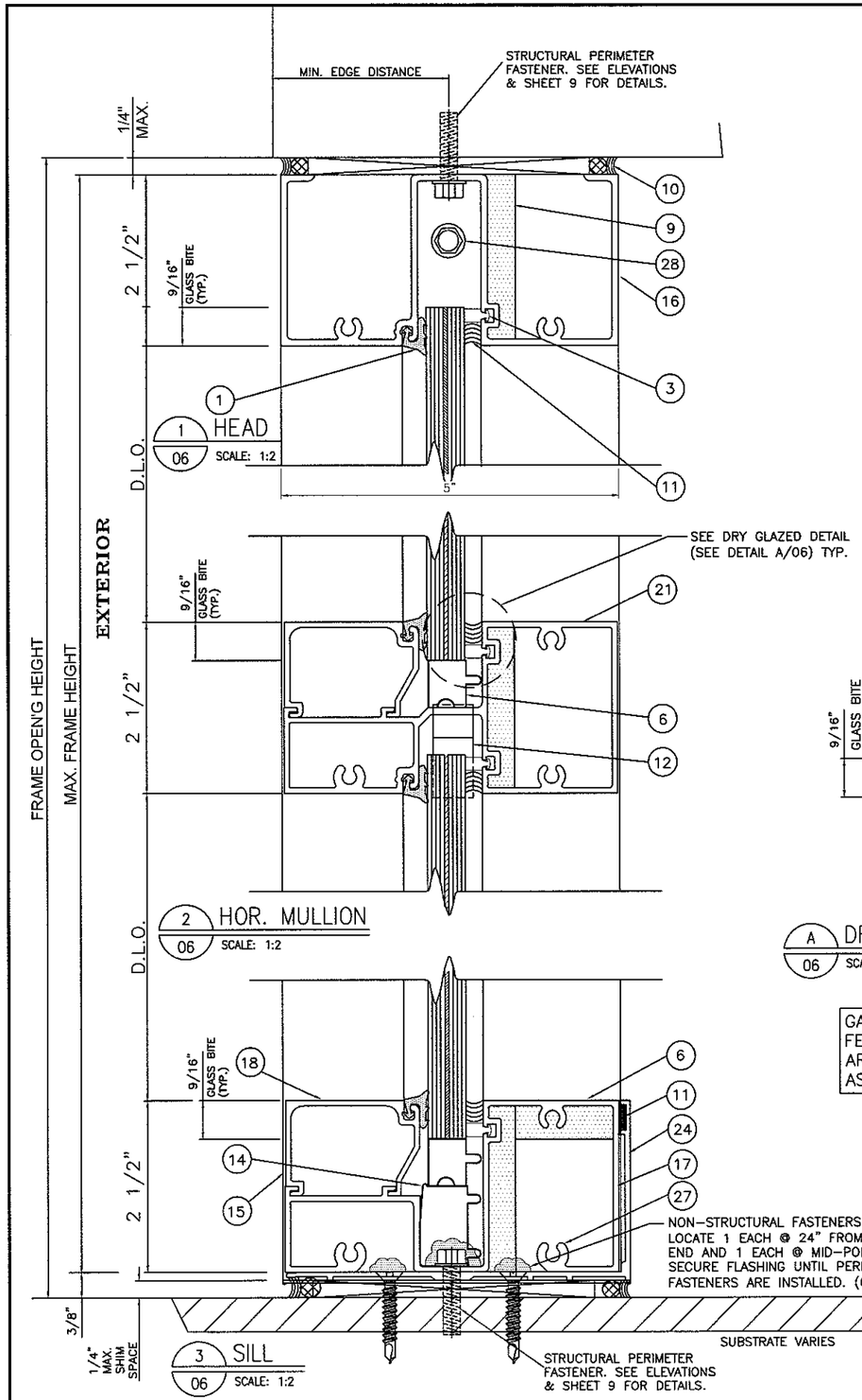
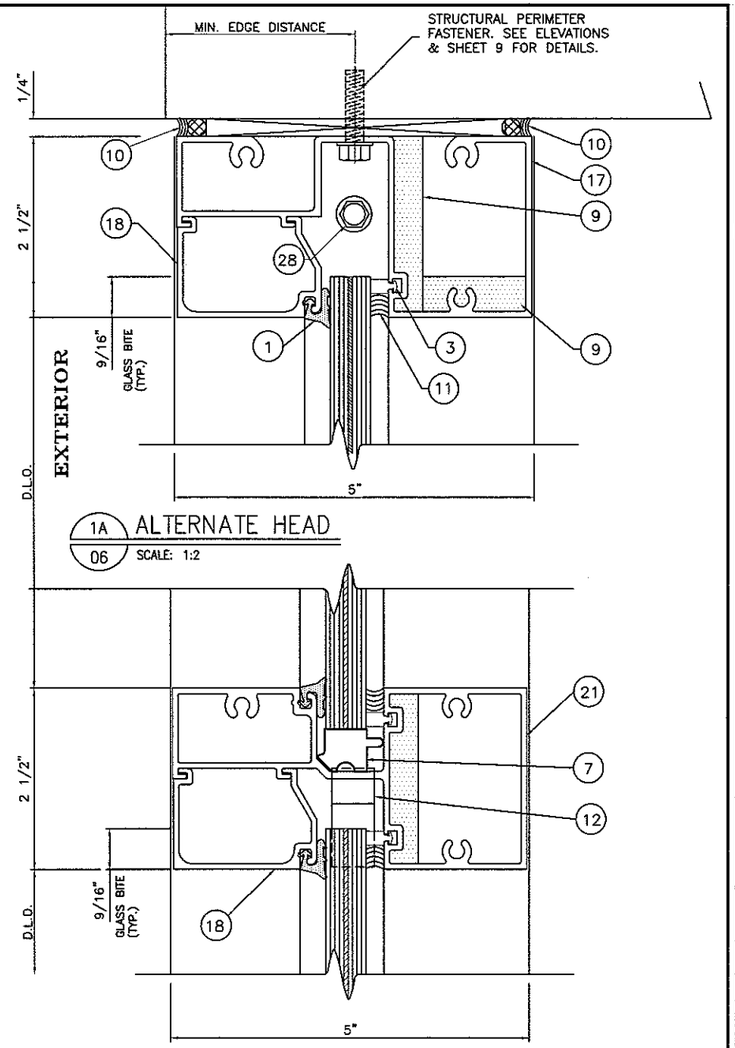


A 06 DRY GLAZE DETAIL TYP. SCALE: 1:2

GASKETS USED IN THIS FENESTRATION PRODUCT ARE IN COMPLIANCE WITH ASTM STANDARD C864.



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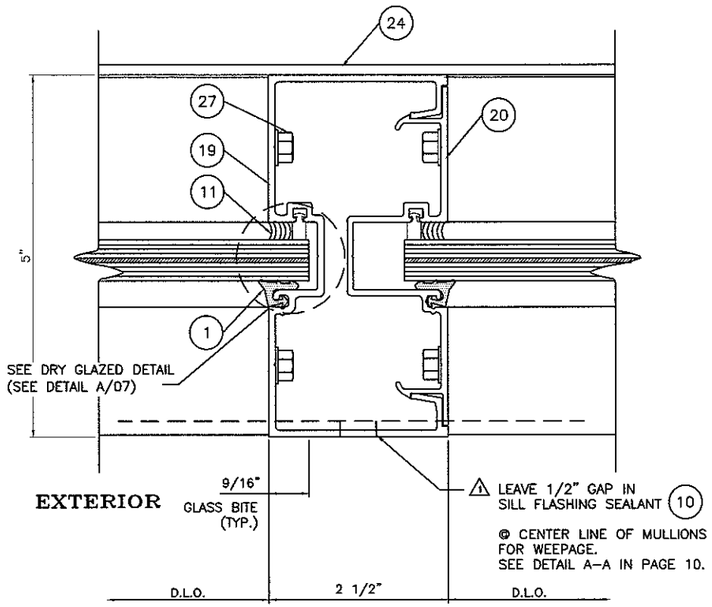
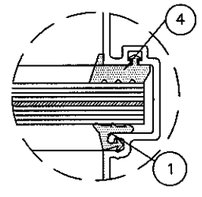


1 / 07 VERT. MULLION
SCALE: 1:2



A / 07 DRY GLAZE DETAIL TYP.
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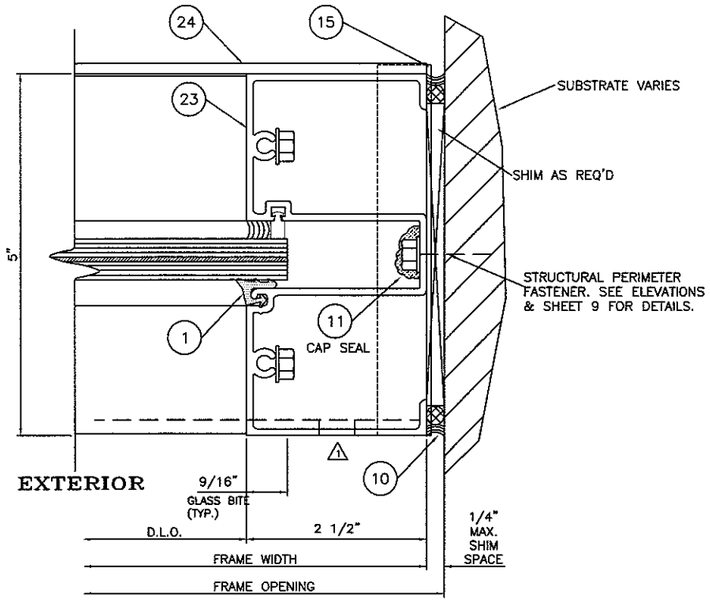
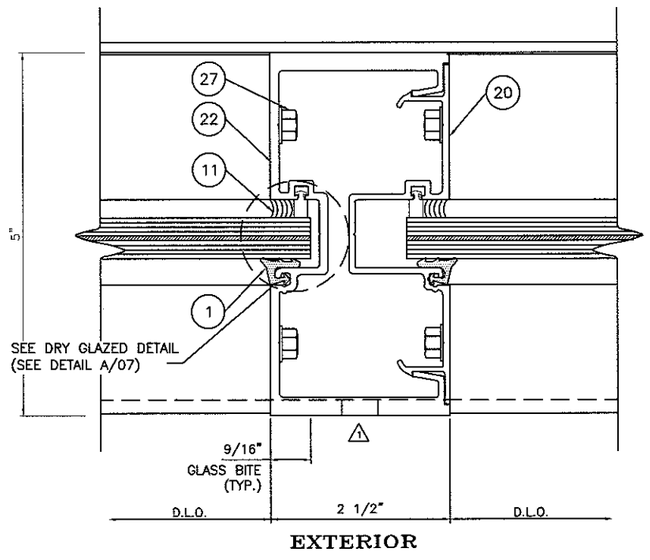
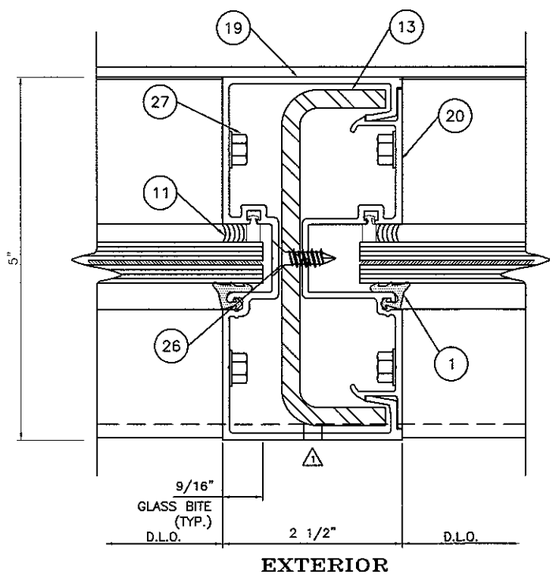


3 / 07 JAMB
SCALE: 1:2



2 / 07 HEAVY VERT. MULLION
SCALE: 1:2



4 / 07 VERT. MULLION WITH STEEL
SCALE: 1:2

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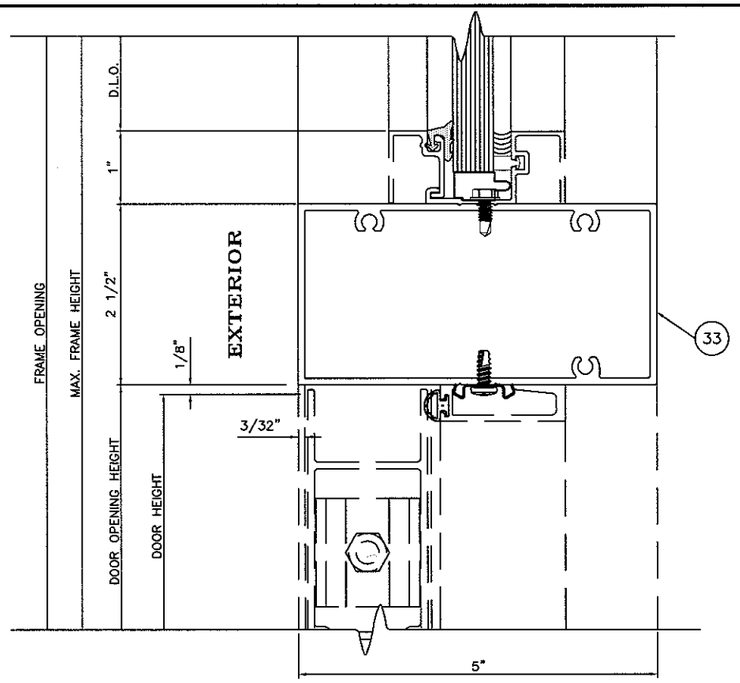
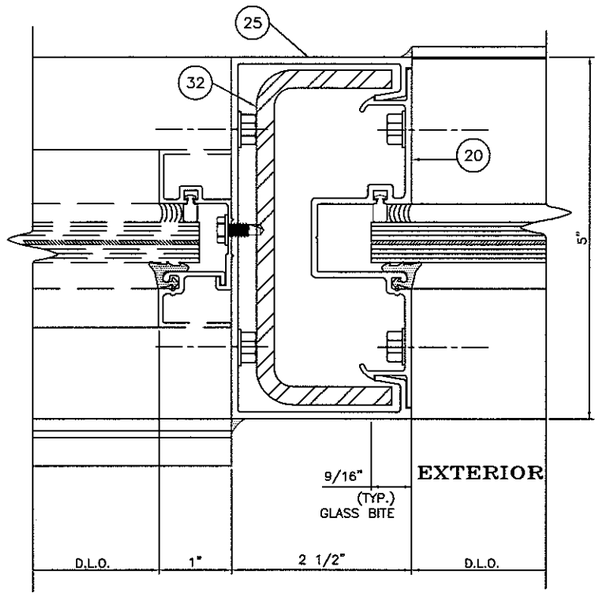
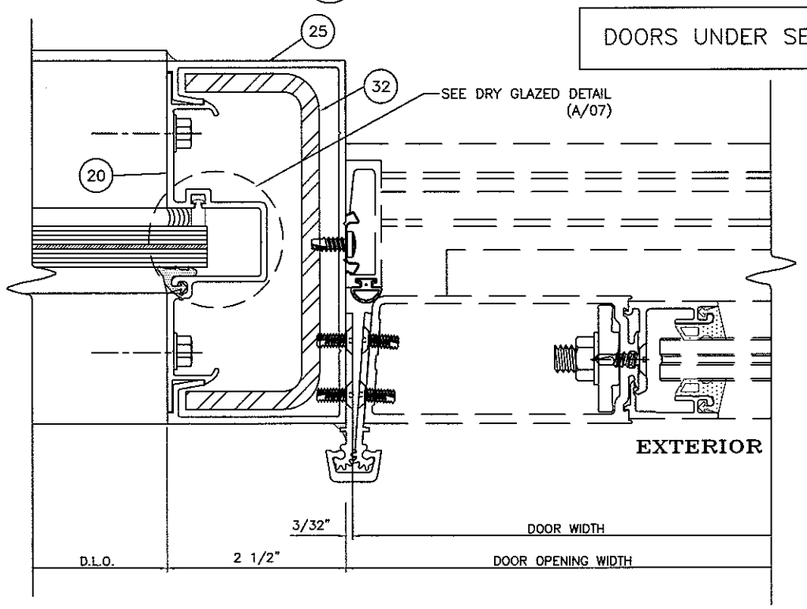


1 / 08 TRANSOM BAR FOR S.A.C.
SCALE: 1:2

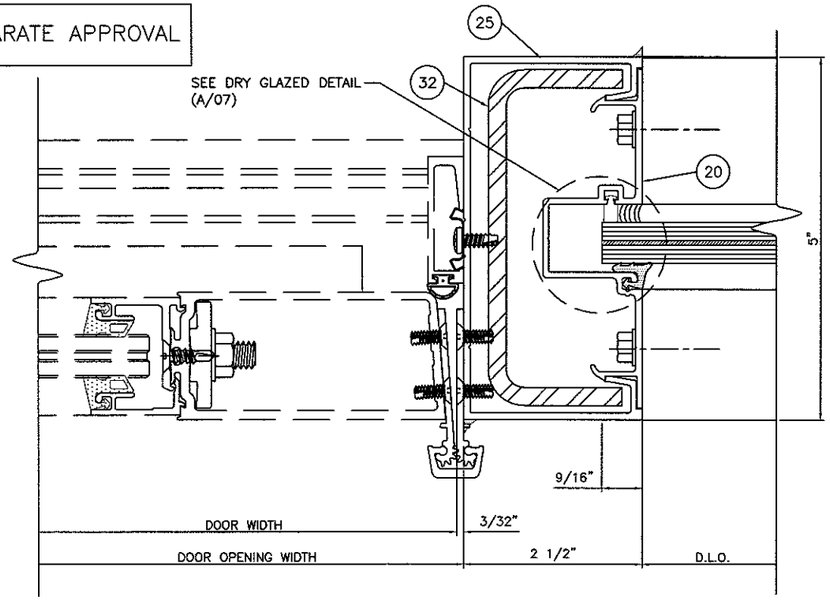


2 / 08 TRANSOM DOOR JAMB @ SIDELITE
SCALE: 1:2

DOORS UNDER SEPARATE APPROVAL



3 / 08 DOOR JAMB @ SIDELITE
SCALE: 1:2



4 / 08 DOOR JAMB @ SIDELITE
SCALE: 1:2

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PRODUCT:

CG500 STORE FRONT SYSTEM
W/ MULTIPLE INFILLS
FOR HURRICANE ZONES
(WET/DRY GLAZED)

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
REV.1	7/16/15 PER TDI COMMENTS

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Email: MCY.Engineering@att.net
www.MCYEngineering.com

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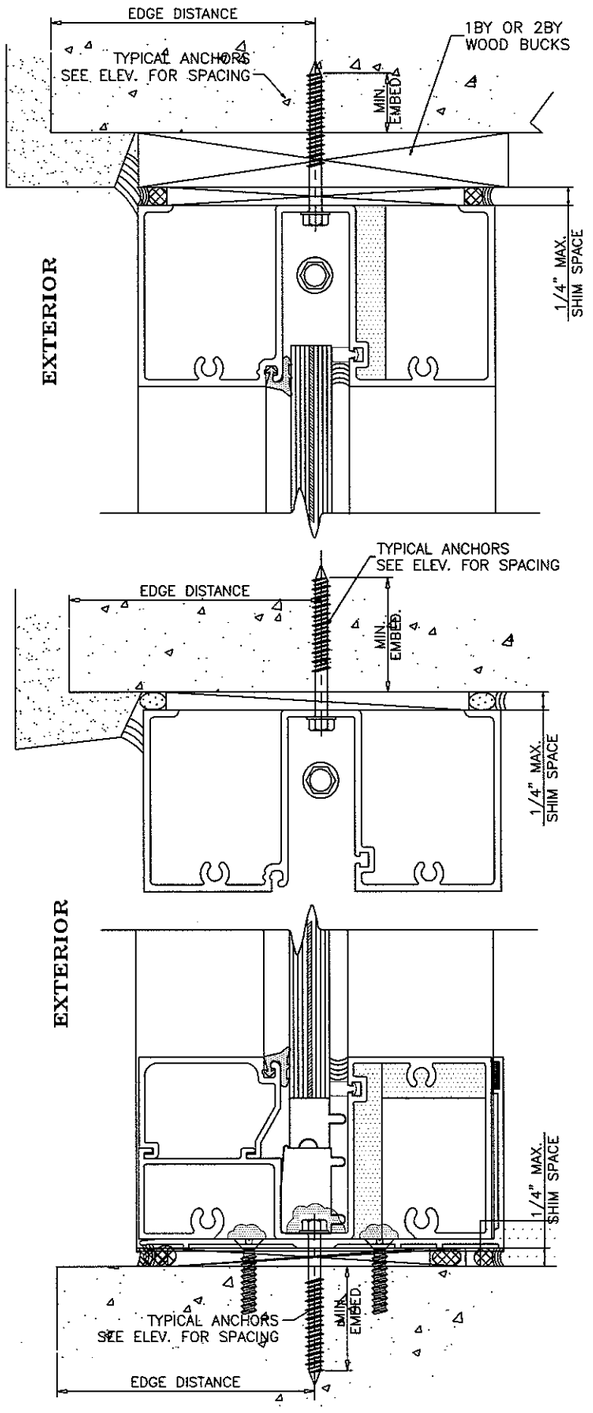
TEXAS REGISTRATION
No. 90246

STATE OF TEXAS
JOO PIN PANG
90246
LICENSED
PROFESSIONAL ENGINEER
07/15/15

PRODUCT CONTROL APPROVAL:

DRAWN: M.C.	DRAWING No:
DATE: 04-07-15	**8 OF 13**
DWG: AD14-06	



WOOD BUCKS AND METAL STRUCTURES NOT BY TRULITE. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS:

SEE ELEVATIONS FOR SPACING

TYPE 'AA' 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI) (JAMB ONLY)
1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)

THRU 1x OR 2x WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD INTO CONC.

THRU WOOD BUCK INTO HOLLOW BLOCK OR MASORNY
1-1/4" MIN. EMBEDMENT.

TYPE 'A' 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)

THRU 1X OR 2X WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD INTO CONC.

THRU WOOD INTO CONCRETE (fc'=3000 PSI).
1-1/4" MIN. EMBEDMENT.

TYPE 'B' 1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
(INTO CONCRETE fc'=3000 PSI).
1/4" DIA. ULTRACON BY 'ELCO' (FU=177 KSI, FY=155 KSI)
(INTO CONCRETE FC'=2730 PSI).

DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBEDMENT

TYPE 'C' #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO APPROVED MULLIONS
(1/8" THK. MIN.) INTO METAL STRUCTURE.

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)

TYPE 'D' 3/8" DIA. ITW LDT TAPCON

DIRECTLY INTO CONCRETE
2" MIN. EMBEDMENT.

TYPE 'D1' 3/8" DIA. ITW LDT TAPCON (JAMB ONLY)

DIRECTLY INTO HOLLOW BLOCK
1-1/2" MIN. EMBEDMENT.

TYPE 'E' 3/8"-16 BOLT (GRADE 2)
INTO METAL STRUCTURE

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

CONCRETE f'C = 3000 PSI MIN.
C-90 HOLLOW/FLLED BLOCK f'm = 2000 PSI MIN.

SEALANTS:

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH SILICONE
GLAZING OPTIONS 6A, 6B OR 6C.
FRAME CORNERS SEALED WITH DOW CORNING 795 OR EQUAL COMPATIBLE.

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DRAWN: M.C.	DRAWING No:
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DWG: AD14-06	

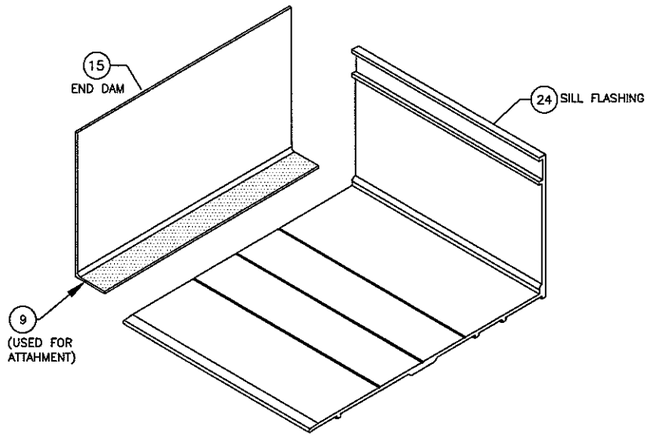


FIGURE-1
SCALE: 6" = 1'-0"

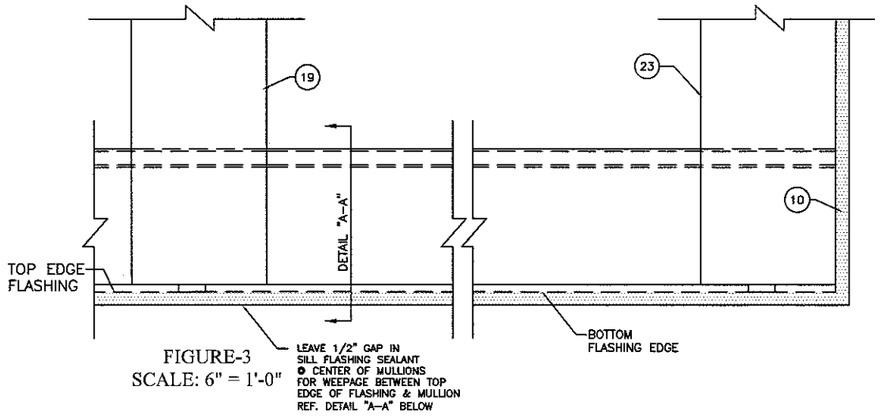


FIGURE-3
SCALE: 6" = 1'-0"

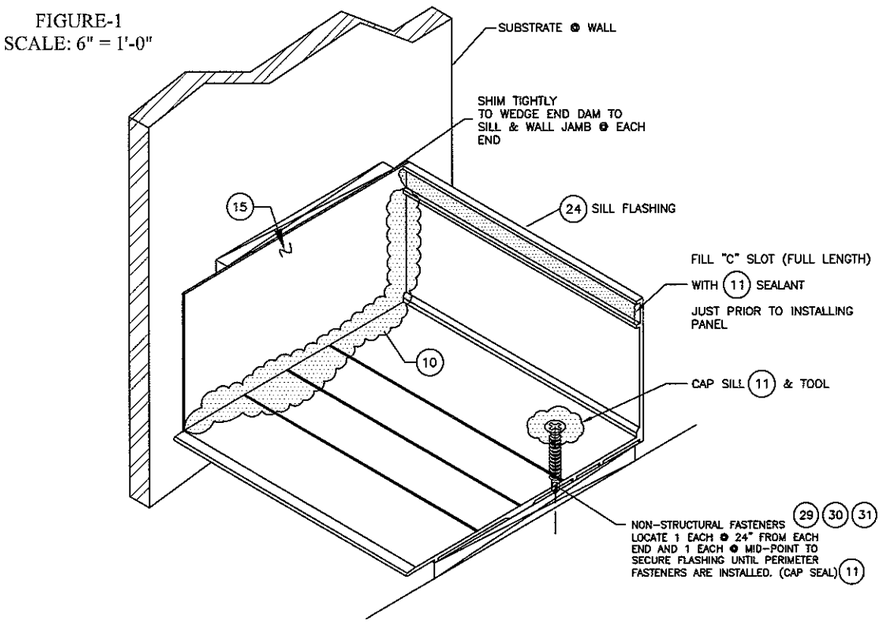
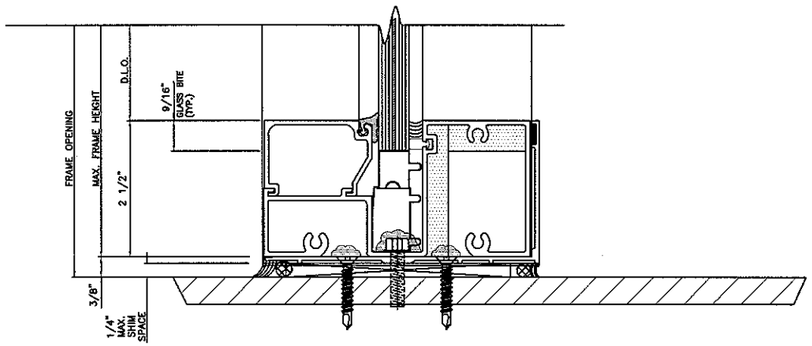


FIGURE-2
SCALE: 6" = 1'-0"



DETAIL "A-A"

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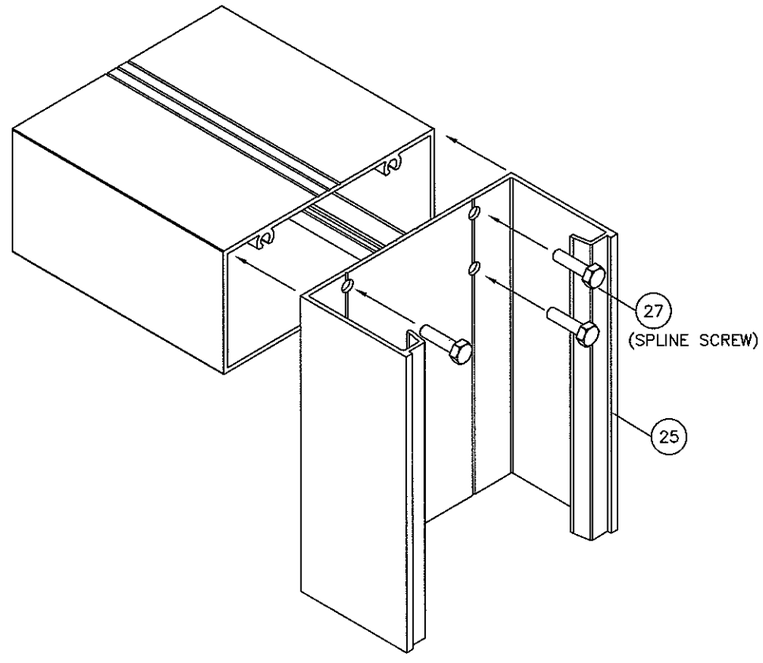

FIGURE: #2
FRAME ASSEMBLY

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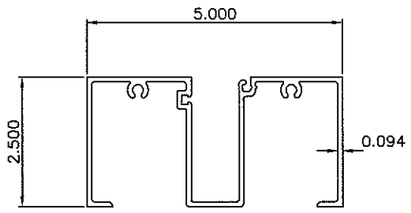
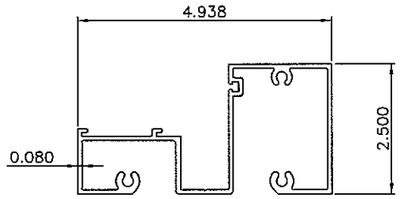
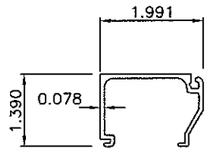


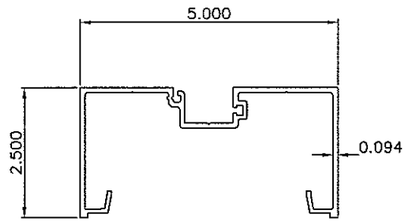
(16) JAMB/HEAD



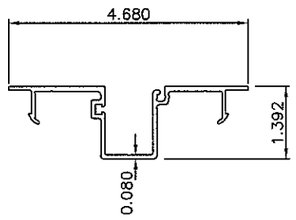
(17) SILL/HEAD



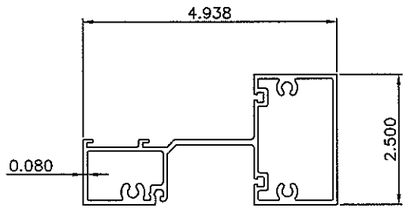
(18) GLASS STOP



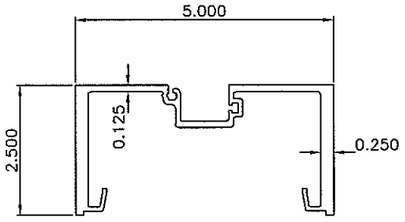
(19) STD VERTICAL MULLION



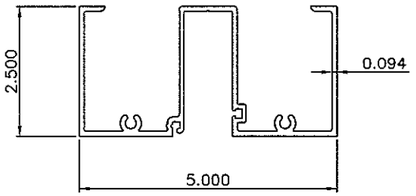
(20) OPEN BACK MULLION FILLER



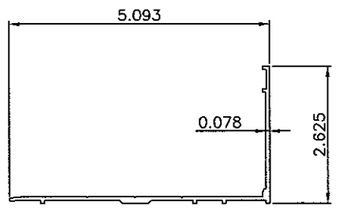
(21) INTERMEDIATE HOR.



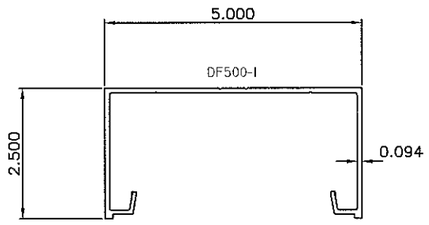
(22) HVY VERT. MULLION



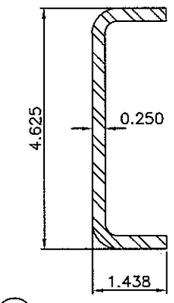
(23) HEAD OR WALL JAMB



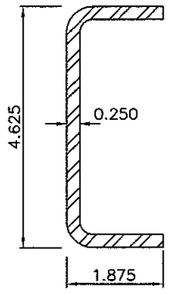
(24) SUBSILL FLASHING



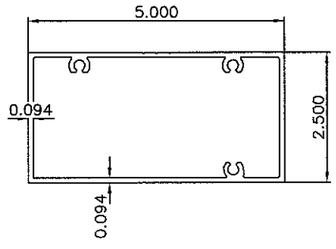
(25) HINGE JAMB



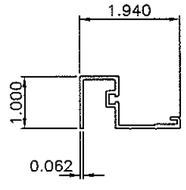
(13) ST500–4
STL. REIN.



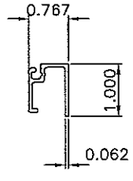
(32) ST500–1
STL. REIN.



(33) TRANSOM MULLION



(34) TRANSOM SASH



(35) 9/16" IMPACT GL STOP

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DATE: 04–07–15	**12 OF 13**
DWG: AD14–06	

BILL OF MATERIAL

ITEM NO.	PART #	DESCRIPTION	DIMENSIONS (INCHES)	MATERIAL	MANUFACTURER	NOTES
1	RG-1	EXTERIOR GLAZING GASKET	0.120 SPACE	EPDM, DURO 65 +/- 5, SHORE-A	VARIES	
2	RG-5	BULB GASKET @ DOOR STOP	0.377 X 0.420	EPDM, DURO 60 +/- 5, SHORE-A	VARIES	
3	RG-8	INTERIOR SPACER GASKET	0.375 X 0.194	EPDM, DURO 75 +/- 5, SHORE-A	VARIES	
4	RG-13	INTERIOR GASKET - DRY GLAZED	0.399 X 0.905	EPDM, DURO 65 +/- 5, SHORE-A	VARIES	
5	RW500-1	W-BLOCK	0.125 X 0.500 X 2.500	EPDM, DURO 70 +/- 5, SHORE-A	VARIES	
6	RSB-11	SETTING BLOCK @ SILL & HORIZONTAL	0.787 X 0.687	EPDM, DURO 85 +/- 5, SHORE-A	VARIES	2 / LITE
7	RSB-12	SETTING BLOCK @ INVERTED HORIZONTAL	0.907 X 0.587	EPDM, DURO 85 +/- 5, SHORE-A	VARIES	2 / LITE
8	RSB-15	SETTING BLOCK @ TRANSOM	0.788 X 0.387	EPDM, DURO 85 +/- 5, SHORE-A	VARIES	2 / LITE
9	GT-1	JOINT SEALANT TAPE	0.500 X 0.125 X VARIES	BUTYL	SCHNEE-MOREHEAD	
10	795	SILICONE- PERIMETER SEALANT	FILL SPACE	SILICONE	DOW CORNING	AT PERIMETER
11	995	SILICONE -GLASS TO METAL	FILL SPACE	SILICONE	DOW CORNING	GLASS TO METAL
12	WD450	WATER DEFLECTOR	1.358 X 0.585 X 0.040	ABS PLASTIC	TRULITE	AT EACH END INTERMEDIATE HORIZONTAL
13	ST500-4	STEEL REINFORCEMENT	4.625 X 1.437 X 0.250	A36 STEEL	VARIES	STEEL REINFORCEMENT
14	RSC500-1	SETTING CHAIR	1.170 X 0.902	EPDM, DURO 85 +/- 5, SHORE-A	TRULITE	2 / LITE AT SILL
15	ED500	END DAM	5.14 X 2.665 X 0.040	ABS PLASTIC	TRULITE	
16	CG500-11	JAMB/HEAD	2.500 X 5.000 X 0.094	6063-T6 ALUMINUM	TRULITE	
17	CG500-2	SILL OR HEAD	2.500 X 4.938 X .080	6063-T6 ALUMINUM	TRULITE	
18	CG500-3	GLASS STOP	1.250 X 1.624 X .078	6063-T6 ALUMINUM	TRULITE	
19	CG500-4	STD. VERTICAL MULLION	2.500 X 5.000 X .094	6063-T6 ALUMINUM	TRULITE	
20	CG500-5	OPEN BACK MULLION FILLER	.721 X 4.680 X .080	6063-T6 ALUMINUM	TRULITE	
21	CG500-6	INTERMEDIATE HORIZONTAL	2.500 X 4.938 X .080	6063-T6 ALUMINUM	TRULITE	
22	CG500-7	HEAVY VERTICAL MULLION	2.500 X 5.000 X .250	6063-T6 ALUMINUM	TRULITE	
23	CG500-11	HEAD OR WALL JAMB	2.500 X 5.000 X .094	6063-T6 ALUMINUM	TRULITE	
24	CG500-12	SUBSILL FLASHING	2.62 X 5.093 X .062	6063-T6 ALUMINUM	TRULITE	
25	DF500-1	HINGE JAMB	2.500 X 5.000 X 0.094	6063-T6 ALUMINUM	TRULITE	
26	FAS10-FH	FASTENER	#10 X 3/4" PFH TEK	STEEL	VARIES	
27	FAS14-2	FASTENER	#14 X 1 HHSTS	STEEL	VARIES	TYPICAL SPLINE SCREW
28	FAS25-1	FASTENER	#10-24 X3/8 HH	STEEL	VARIES	ATTACH ST500-4 TO CG500-4
29	FASTENER	ATTACH ITEM # 21 TO CONCRETE SUBSTRATE	#12 X 2" FHP TAPCON	STEEL	VARIES	1" MINIMUM EMBEDMENT NON-STRUCTURAL
30	FASTENER	ATTACH ITEM # 21 TO WOOD SUBSTRATE	#12 X 2" FHP WD SCREW	STEEL	VARIES	1" MINIMUM EMBEDMENT NON-STRUCTURAL
31	FASTENER	ATTACH ITEM # 21 TO STL SUBSTRATE	#12 X 1-1/2" S.D. FHP	STEEL	VARIES	1" LONG NON-STRUCTURAL
32	ST500-1	STEEL REINFORCEMENT	4.625 X 1.875 X .250	STEEL	VARIES	
33	DF500-2	TRANSOM MULLION	2.000 X 5.000 X 0.094	6063-T6 ALUMINUM	TRULITE	
34	DF106	TRANSOM SASH	1.000 X 1.940 X 0.062	6063-T6 ALUMINUM	TRULITE	
35	DF107	9/16" IMPACT GL STOP	1.000 X 0.767 X 0.062	6063-T6 ALUMINUM	TRULITE	

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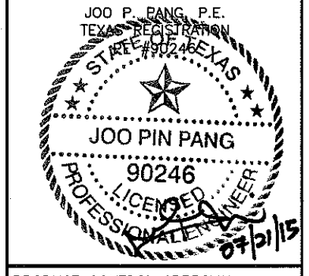

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