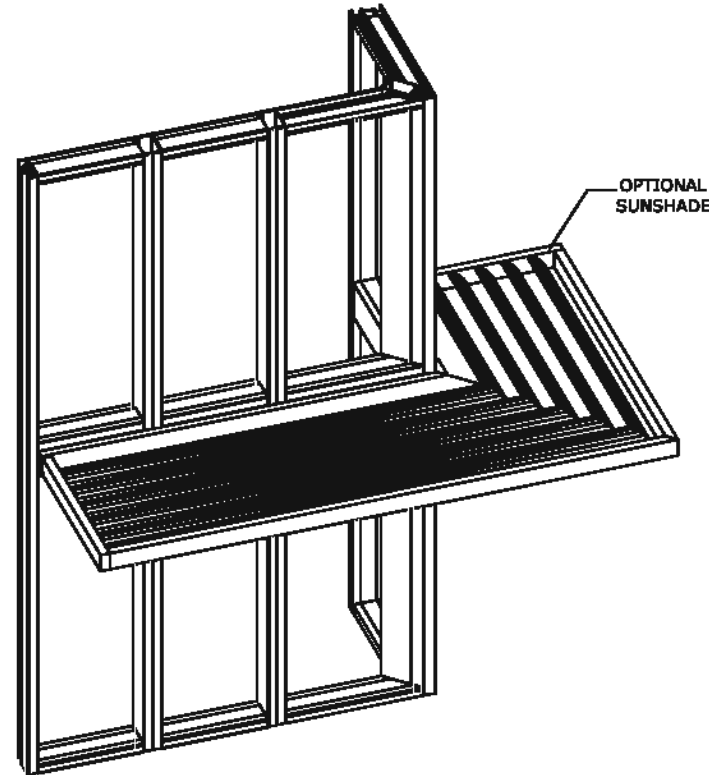
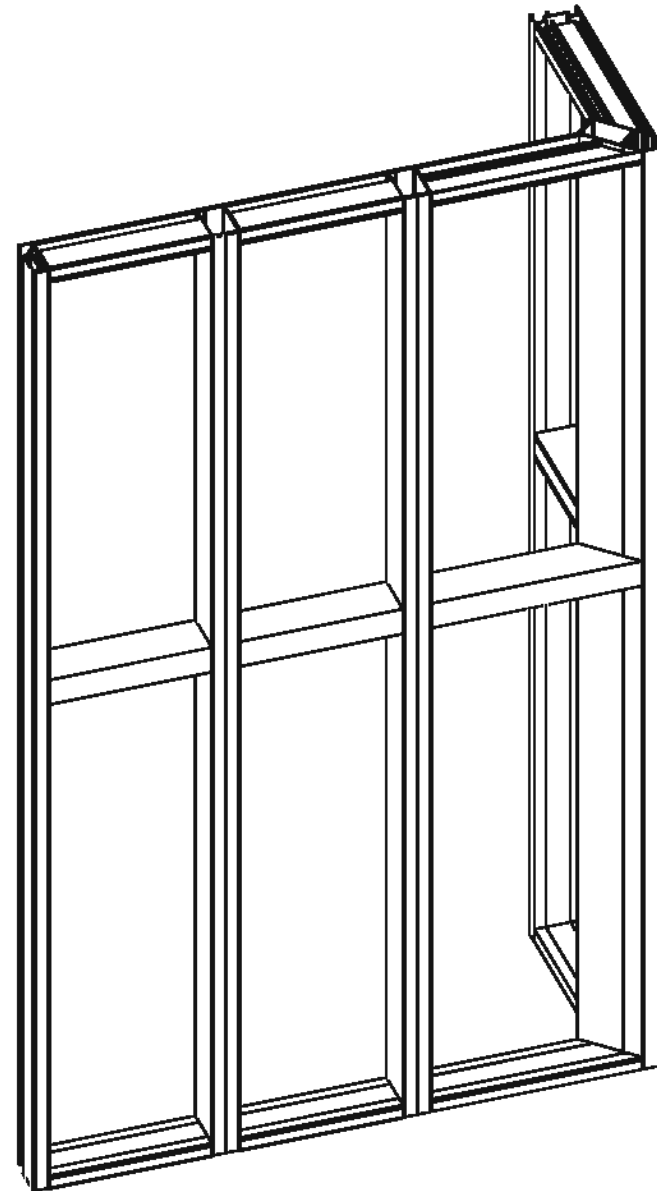


CRAWFORD TRACEY CORPORATION

PRO-TECH 7SG ALUMINUM CURTAINWALL SYSTEM

L.M.I. & S.M.I. (MISSILE LEVEL "E" & "D")

(OPTIONAL SUNSHADE)



GENERAL NOTES:

- THE SYSTEM AND GLASS TYPES DESCRIBED HEREIN COMPLY AND HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) PER
 - ASTM E330-14, E331-00, E283-04, E1886-13a, E1996-14
 - TAS 201 / 202 / 203
 - AAMA 501
 - ANST Z97.1-2015 (400 ft-lb. IMPACT)
- FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR, WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES
- ENGINEER SEAL AFFIXED HERE TO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION)
- IF SLOPED GLAZING IS NEEDED, IT SHALL BE ALLOWED UNDER SITE SPECIFIC ENGINEERING. DESIGN MUST BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER AND MANUFACTURER.
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:
 CRAWFORD TRACEY CORPORATION
 3301 S.W. 13th DRIVE
 DEERFIELD BEACH, FLORIDA 33442
 TAS 201/202/203
 APPROVED BY FLORIDA BUILDING COMMISSION
 FLORIDA PRODUCT APPROVAL NUMBER FL# 29520

SHEET INDEX	
# SHEET	DESCRIPTION
01	COVER SHEET
02-04	ELEVATIONS
05	SYSTEM CONFIGURATIONS
06-36	GLASS LOADING TABLES
37-41	MULLION LOADING TABLES
42	SIDE LOADED FRAME
43	SUNSHADE LOADING TABLES
44-65	DETAILS
66-83	ANCHOR LAYOUT & ANCHOR CAPACITY TABLES
84-88	EXTRUSIONS / PART LIST/ FRAME ASSEMBLY
88	TOTAL

VISIT ECALC.IO/29778

FOR HELPFUL RESOURCES, SITE SPECIFIC JOB ORDERING & MORE INFORMATION ABOUT THIS PRODUCT & RELATED SERVICES

SCAN HERE:



FRANK BENNARDO, P.E.
PE# 0046549 CA 9885



FL#29520.2

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PRO-TECH 7SG ALUMINUM CURTAINWALL SYSTEM
 FLORIDA STATE APPROVAL

REMARKS	DATE	CHKD	DATE
ERC 2020 UPDATE	06/08/20	JPC	AJP

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DRWN / CHKD	
JPC / ALJ	

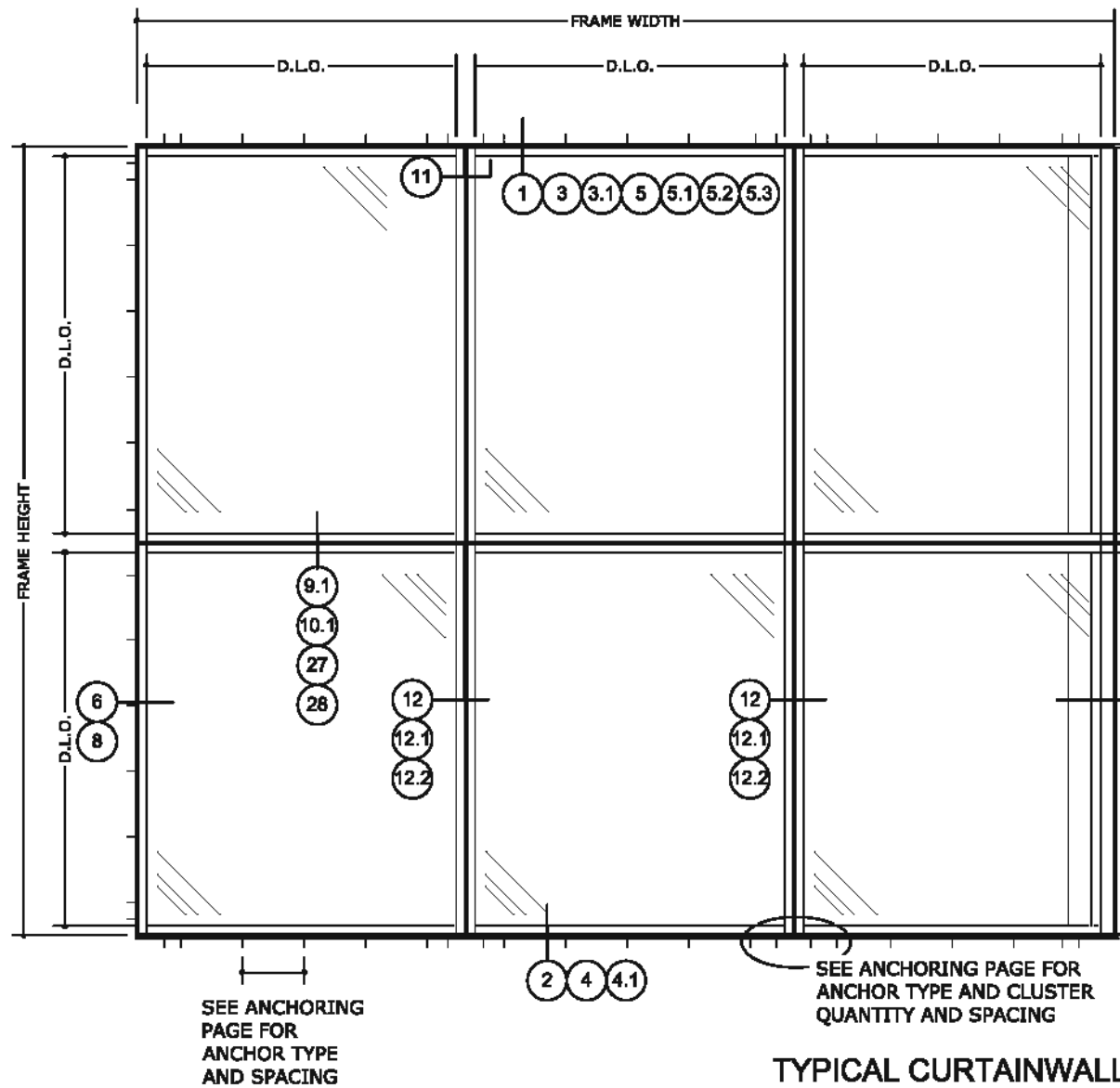
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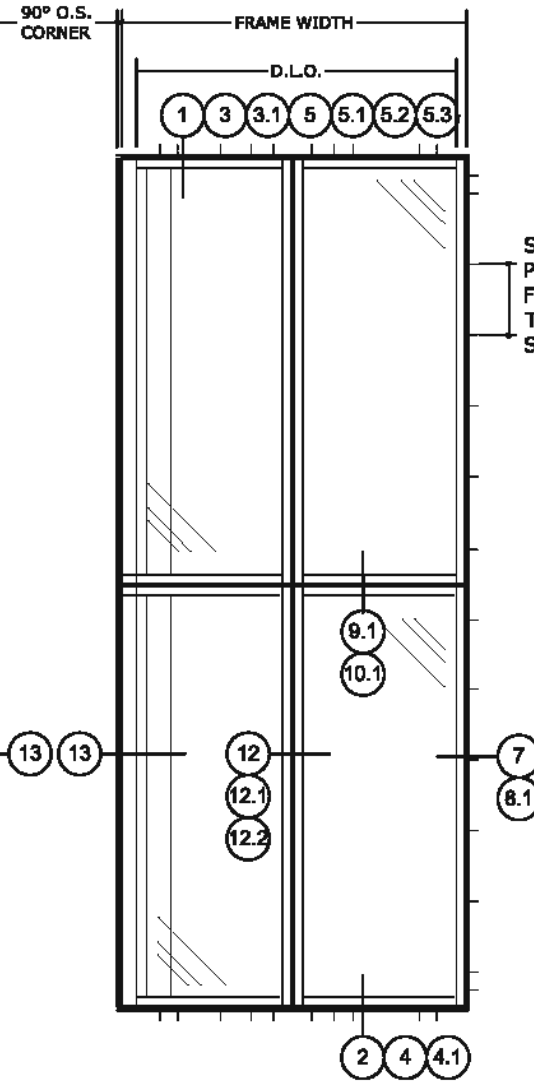
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02



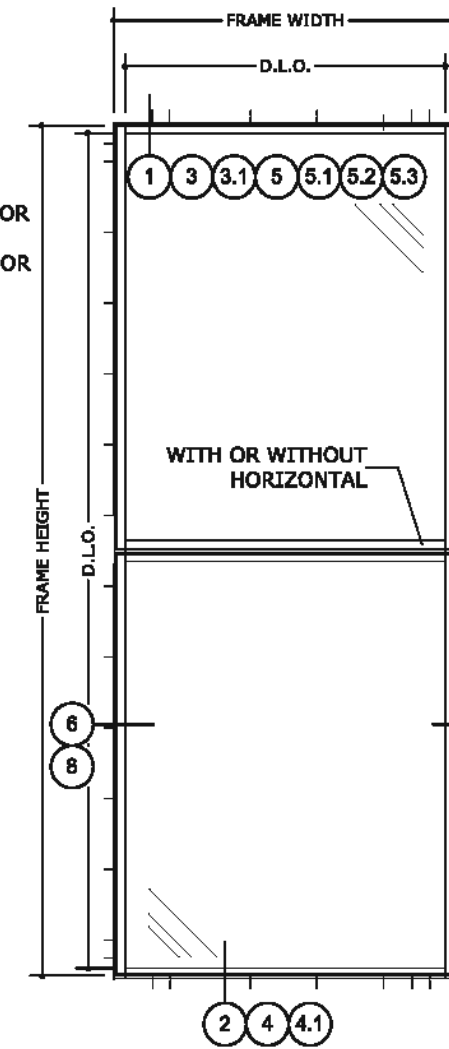
TYPICAL CURTAINWALL ELEVATION

SEE PAGE 3 FOR ALL ALTERNATE SUNSHADES UNDER THIS APPROVAL



TYPICAL SINGLE PANEL OPENING

FRAME SIZE FOR SINGLE OPENINGS SHALL BE GOVERNED BY THE MAXIMUM ALLOWABLE D.L.O. DIMENSIONS DISPLAYED ON THE GLASS CHARTS



SECTION "A"

SINGLE SPAN

INTERMEDIATE HORIZONTAL NOTES:
72" MAX. FOR INTERMEDIATE HORIZONTAL MULLIONS.
60" MAX. FOR INTERMEDIATE HORIZONTAL MULLIONS WITH SUNSHADE.

WATER INFILTRATION NOTE:
THIS SYSTEM HAS BEEN TESTED TO WITHSTAND UP TO A 100 PSF WATER LOAD

INSTRUCTIONS TO DETERMINE DESIGN PRESSURE RATING

STEP ①: USE THE GLASS LOADING TABLES TO DETERMINE THE ALLOWABLE PRESSURE OF THE GLASS.

STEP ②: USE THE MULLION LOADING TABLE TO DETERMINE THE ALLOWABLE PRESSURES FOR THE MULLIONS.

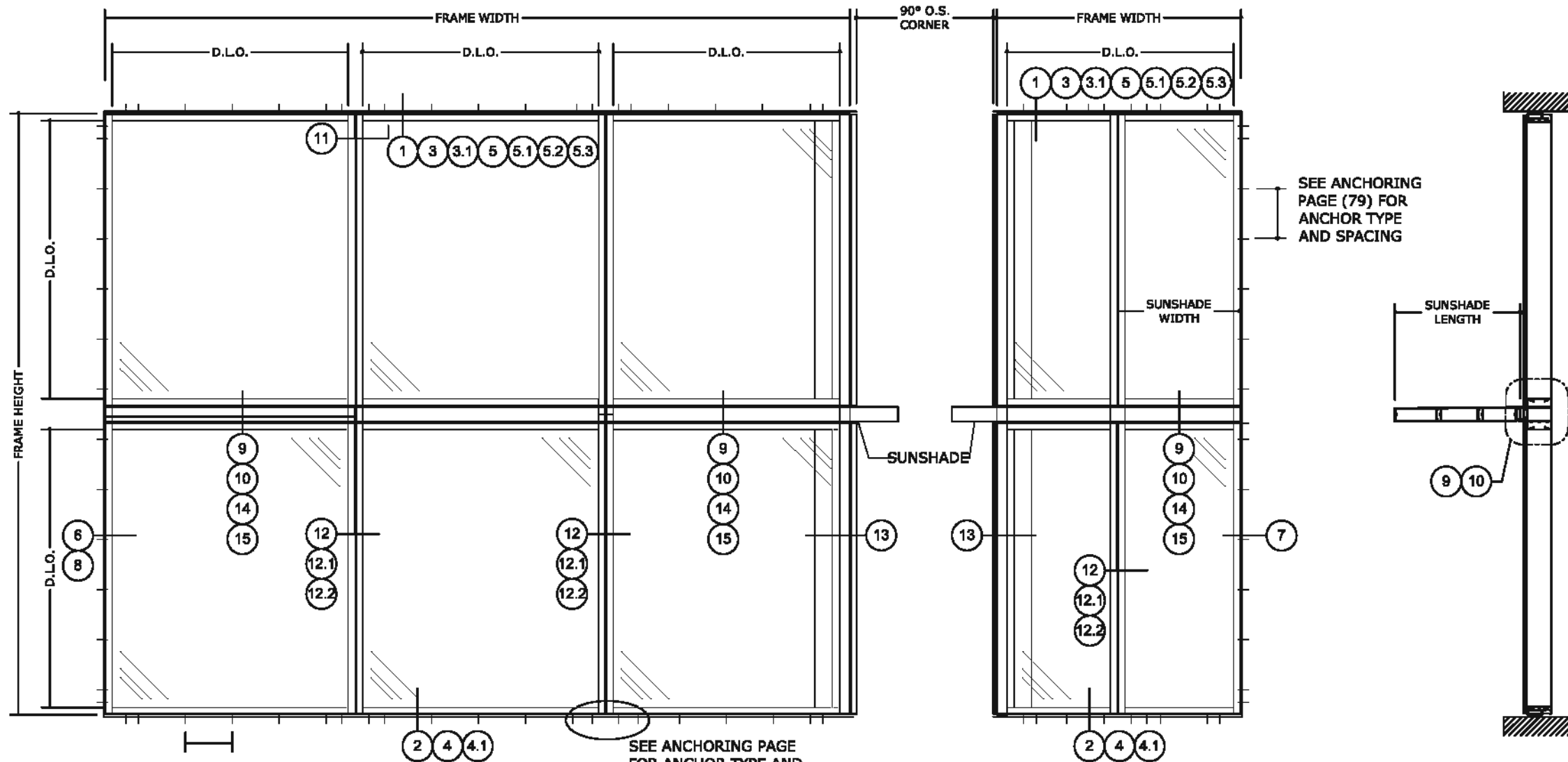
STEP ③: THE MINIMUM VALUE BETWEEN STEP ① AND STEP ② WILL DETERMINE THE DESIGN LOAD PRESSURE FOR THE CURTAIN WALL SYSTEM.



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FLORIDA STATE APPROVAL



SEE ANCHORING PAGE FOR ANCHOR TYPE AND SPACING

SEE ANCHORING PAGE FOR ANCHOR TYPE AND CLUSTER QUANTITY AND SPACING

SEE ANCHORING PAGE (79) FOR ANCHOR TYPE AND SPACING

TYPICAL SUNSHADE ELEVATION

**SECTION "A"
SINGLE SPAN**

INTERMEDIATE HORIZONTAL NOTES:
72" MAX. FOR INTERMEDIATE HORIZONTAL MULLIONS.
60" MAX. FOR INTERMEDIATE HORIZONTAL MULLIONS WITH SUNSHADE.

WATER INFILTRATION NOTE:
THIS SYSTEM HAS BEEN TESTED TO WITHSTAND UP TO A 100 PSF WATER LOAD

INSTRUCTIONS TO DETERMINE DESIGN PRESSURE RATING

STEP ①: USE THE GLASS LOADING TABLES TO DETERMINE THE ALLOWABLE PRESSURE OF THE GLASS.

STEP ②: USE THE MULLION LOADING TABLE TO DETERMINE THE ALLOWABLE PRESSURES FOR THE MULLIONS.

STEP ③: USE THE SUNSHADE LOADING TABLE TO DETERMINE THE ALLOWABLE PRESSURES FOR THE SUNSHADE.

STEP 4: THE MINIMUM VALUE BETWEEN STEP ① AND STEP ② WILL DETERMINE THE DESIGN LOAD PRESSURE FOR THE CURTAIN WALL SYSTEM.

STEP 5: THE VALUE IN THE TABLE FOR STEP ③ WILL DETERMINE THE DESIGN LOAD PRESSURE FOR THE SUNSHADE SYSTEM.

NOTE:
THE USE OF FINS AT CANTILEVERED CONDITIONS IS ALLOWABLE, GIVEN THE CONDITION IS DESIGNED UNDER SITE SPECIFIC PARAMETERS, AND APPROVED BY BOTH THE MANUFACTURER AND A LICENSED PROFESSIONAL ENGINEER.

REMARKS	DATE
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JPC / ALJ	

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ERIC 2020 UPDATE	08/08/20
DRWN CHKD	
JPC	AJF

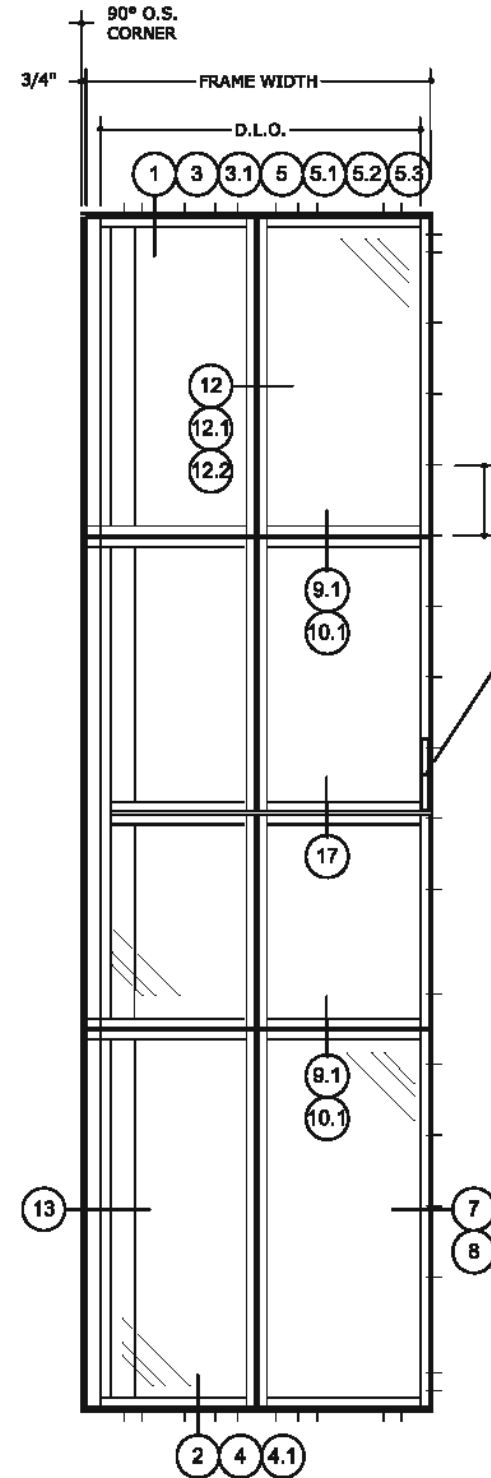
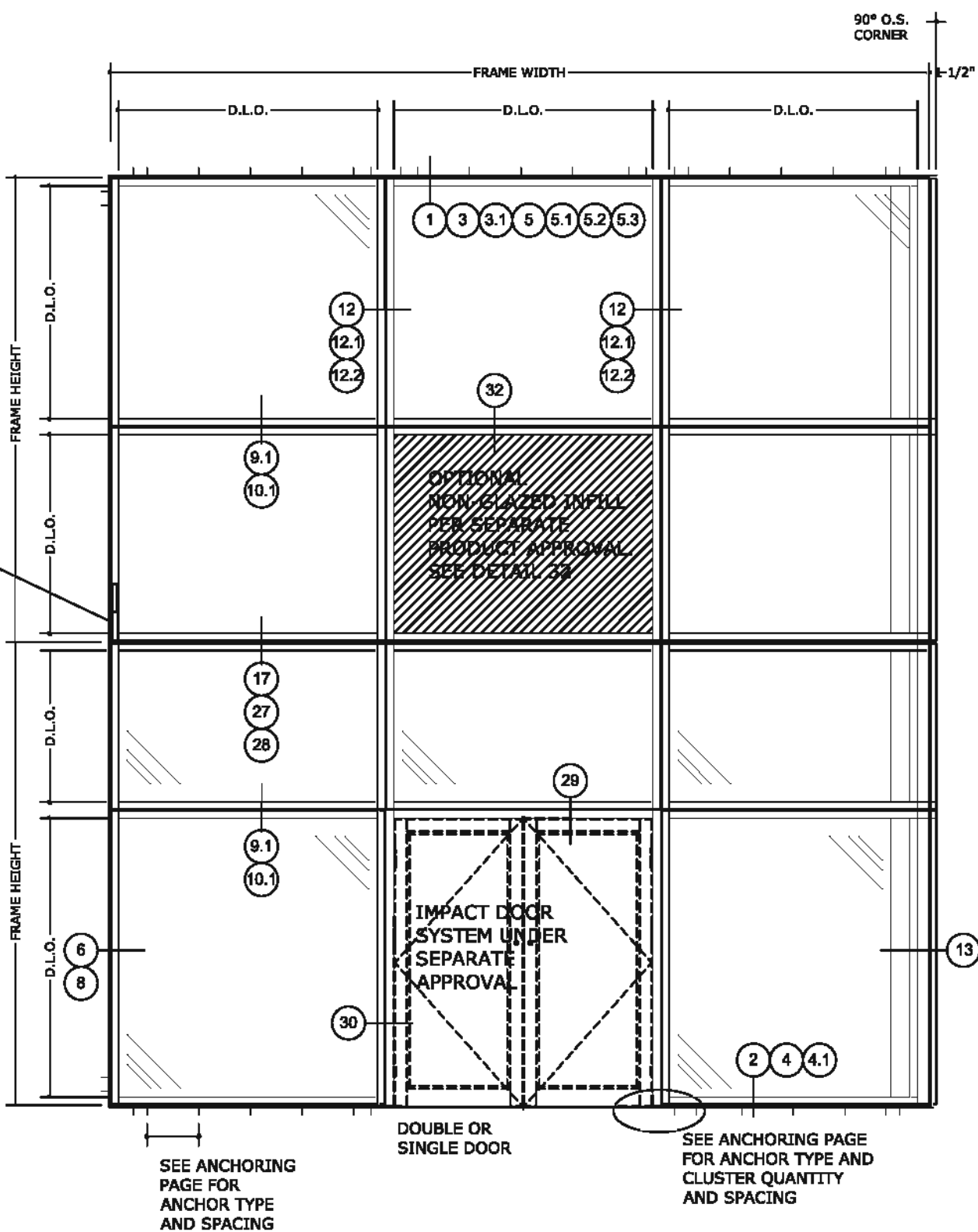
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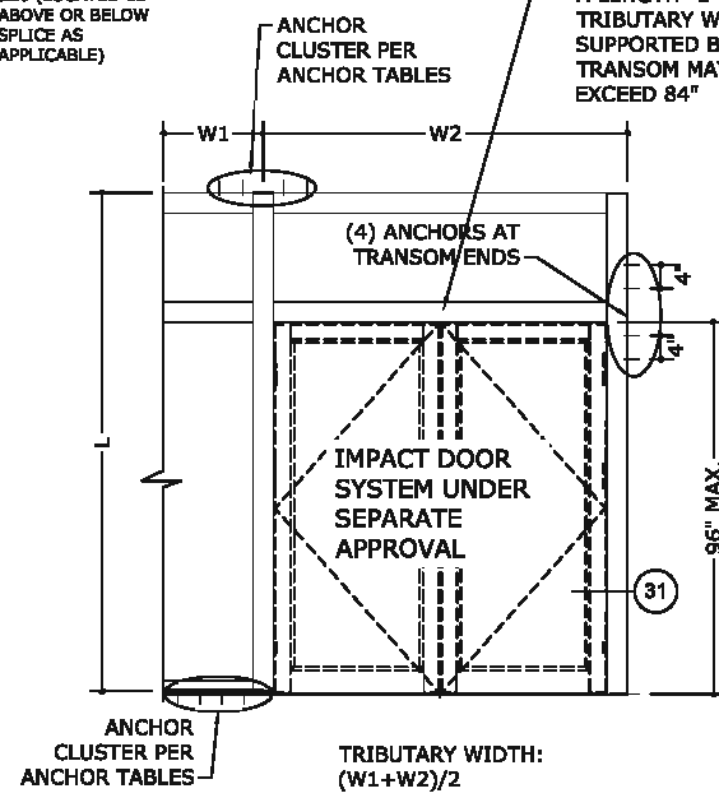
04



SEE ANCHORING PAGE FOR ANCHOR TYPE AND SPACING

DEAD LOAD BLOCKS. REFER TO DETAILS 25 & 26 (LOCATED 12" ABOVE OR BELOW SPLICE AS APPLICABLE)

TRANSOM ALLOWED AS NECESSARY. ONLY THE TRANSOMS SHALL BE LIMITED TO A LENGTH "L" = 81". TRIBUTARY WIDTH SUPPORTED BY THE TRANSOM MAY NOT EXCEED 84"



MULLION ANCHORAGE AT DOOR
APPLIES TO SINGLE OR DOUBLE DOOR ASSEMBLIES

NOTE: PRESSURES SHOWN ON PAGES 38 THROUGH 41 ARE APPLICABLE TO INTERMEDIATE VERTICAL MULLIONS RECEIVING DOORS, AS LONG AS THE MAXIMUM TRIBUTARY WIDTH, PER THE MULLION TYPE, IS NOT EXCEEDED. IF ADDITIONAL TRANSOM ANCHORING IS NEEDED, IT SHALL BE DESIGNED PER SIRE SPECIFIC ENGINEERING.

TYPICAL MULTI SPAN CURTAINWALL ELEVATION

INTERMEDIATE HORIZONTAL NOTES:
72" MAX. FOR INTERMEDIATE HORIZONTAL MULLIONS.
60" MAX. FOR INTERMEDIATE HORIZONTAL MULLIONS WITH SUNSHADE.

SEE ANCHORING PAGE FOR ANCHOR TYPE AND SPACING

SEE ANCHORING PAGE FOR ANCHOR TYPE AND CLUSTER QUANTITY AND SPACING

DOUBLE OR SINGLE DOOR

DEAD LOAD BLOCKS. REFER TO DETAILS 25 & 26 (LOCATED 12" ABOVE OR BELOW SPLICE AS APPLICABLE)



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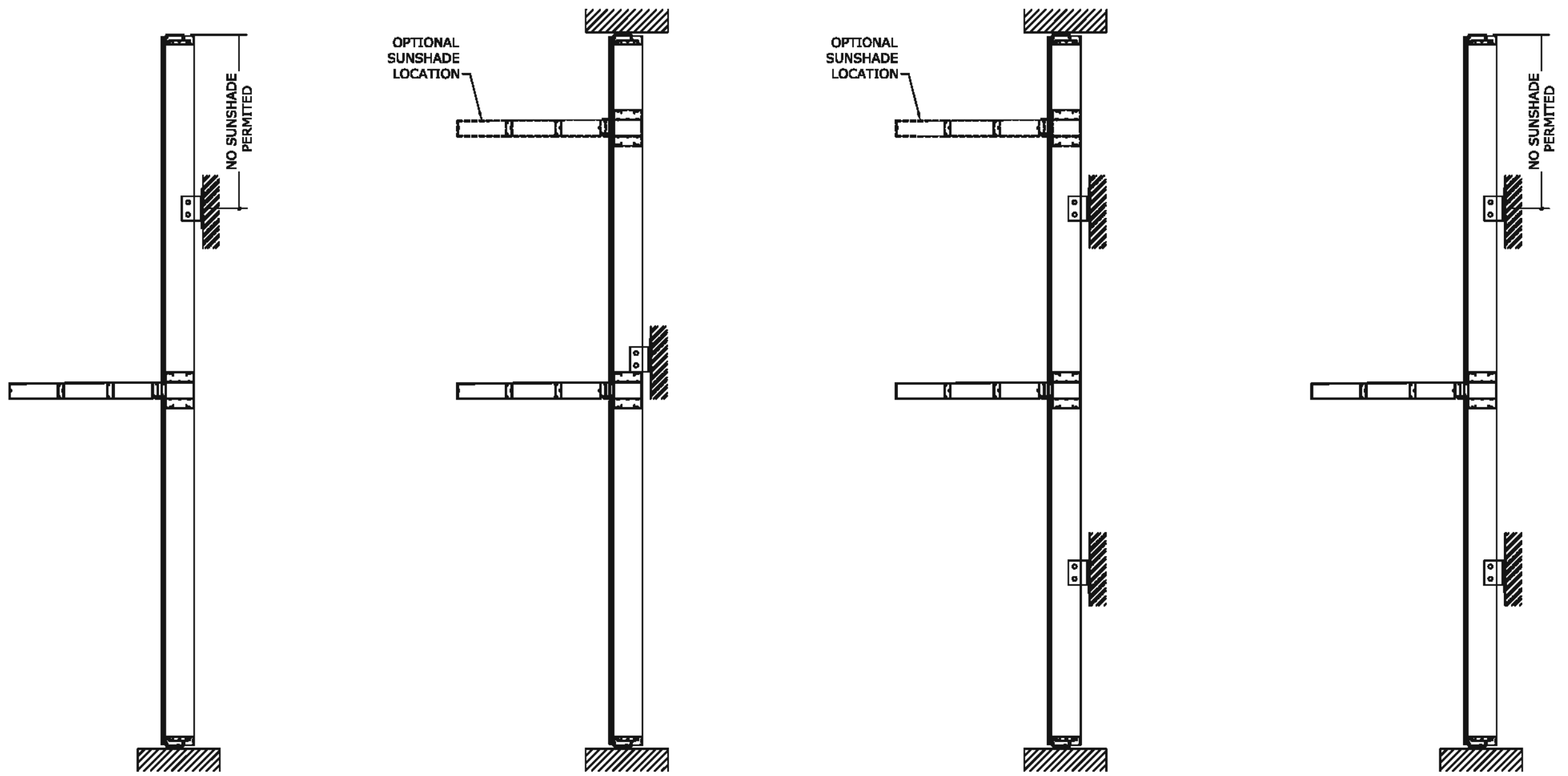
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SECTION "B"
SINGLE SPAN WITH CANTILEVER

SECTION "C"
TWIN SPAN

SECTION "D"
MULTI SPAN

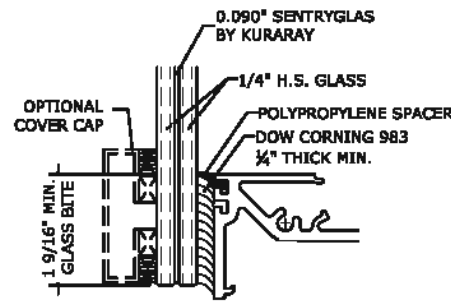
SECTION "E"
MULTI SPAN WITH CANTILEVER

ALTERNATIVE CURTAINWALL CONDITIONS

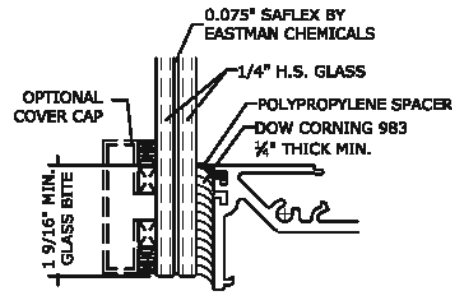
SUNSHADES CAN BE USED FOR THE FOLLOWING CURTAIN WALL CONDITIONS (AS SHOWN ABOVE):
SINGLE SPAN W/ CANTILEVER, TWIN SPAN, MULTIPLE SPANS, MULTI SPAN WITH CANTILEVER.
SUNSHADES MAY ALSO BE USED IN CONJUNCTION WITH EXISTING PROTECH 75G AND 85G APPROVALS FROM THIS MANUFACTURER. SUNSHADES MUST BE CHECKED AND APPROVED BY A REGISTERED PROFESSIONAL ENGINEER.
MULTIPLE SUNSHADES ARE PERMITTED TO BE INSTALLED ON A SITE SPECIFIC BASIS.

NOTE:
THE USE OF FINS AT CANTILEVERED CONDITIONS IS ALLOWABLE, GIVEN THE CONDITION IS DESIGNED UNDER SITE SPECIFIC PARAMETERS, AND APPROVED BY BOTH THE MANUFACTURER AND A LICENSED PROFESSIONAL ENGINEER.

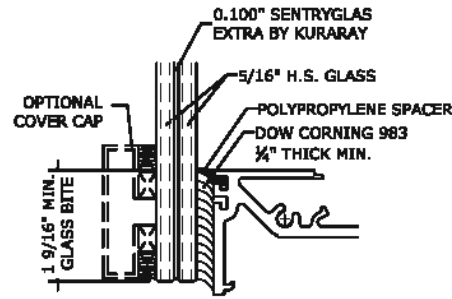
GLASS TYPES (L.M.I.)



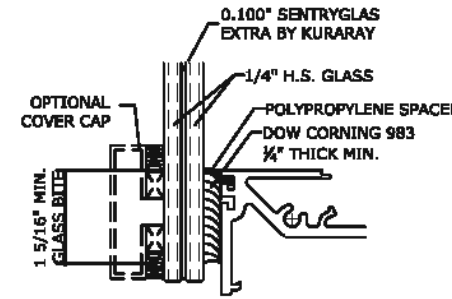
GLASS TYPE A
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 3/8" GLASS



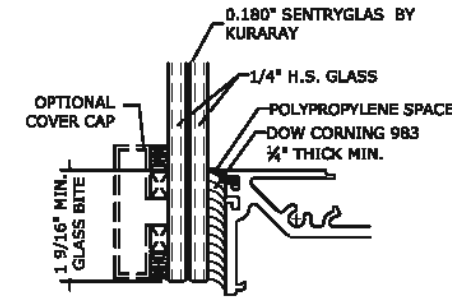
GLASS TYPE B
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 3/8" GLASS



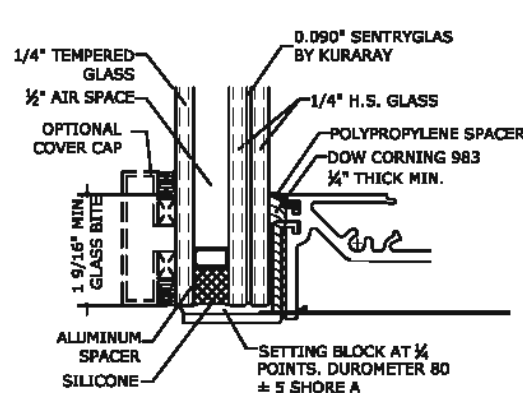
GLASS TYPE E
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 3/8" GLASS



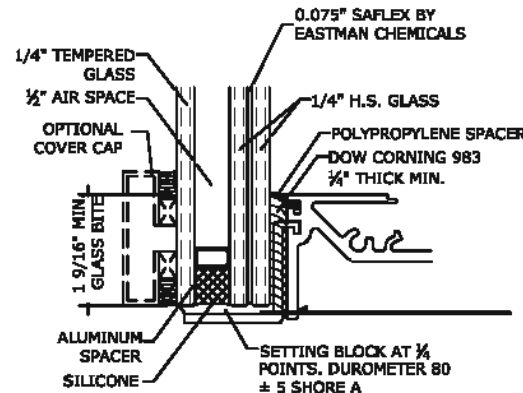
GLASS TYPE F
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 3/8" GLASS



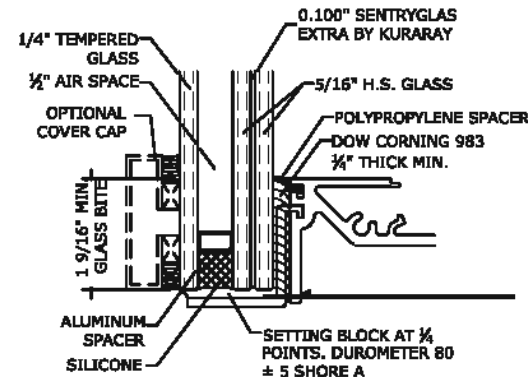
GLASS TYPE C
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL E
 3/8" GLASS



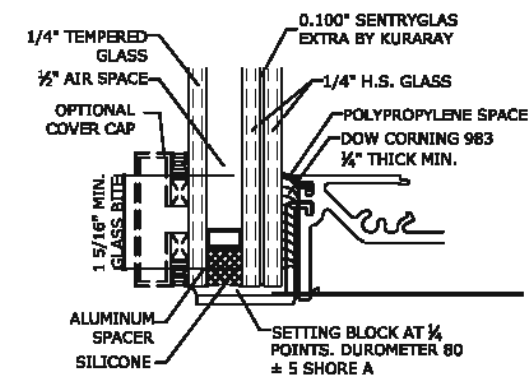
GLASS TYPE A1
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 1 3/8" GLASS



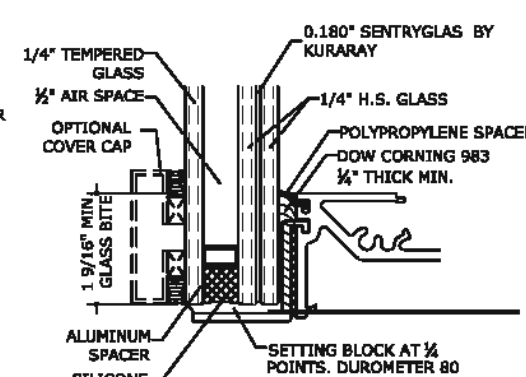
GLASS TYPE B1
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 1 3/8" GLASS



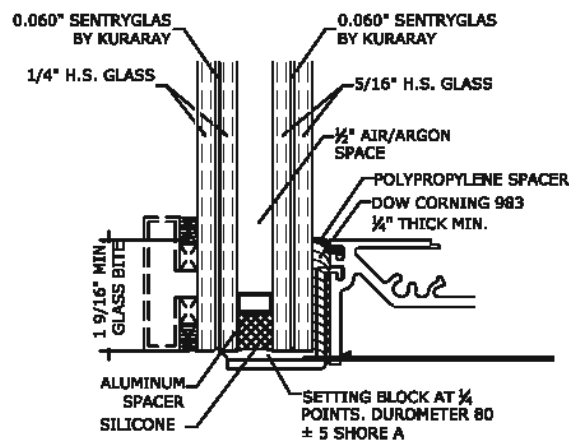
GLASS TYPE E1
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 1 3/8" GLASS



GLASS TYPE F1
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 1 3/8" GLASS



GLASS TYPE C1
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL E
 1 3/8" GLASS



GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 1 13/16" GLASS

NOTES:

THICKER GLASS LITES MAY BE USED IN THE SAME CONFIGURATIONS AS SHOWN ABOVE, AS REQUIRED ON A SITE SPECIFIC BASIS. IF THICKER LITES ARE USED, IT SHALL BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER.

CURVED OR BENT GLAZING MAY BE USED IN THE SAME CONFIGURATIONS AS SHOWN ABOVE, IN ACCORDANCE WITH SITE SPECIFIC REQUIREMENTS. IF CURVED OR BENT GLAZING IS USED, IT SHALL BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER AND THE MANUFACTURER. FINAL APPROVAL SHALL BE GIVEN BY STATE AUTHORITY HAVING JURISDICTION.

NON-LAMINATED, MONOLITHIC GLASS MAY BE USED IN PLACE OF THE LAMINATED OPTIONS, SHOWN ON PAGE ABOVE, GIVEN THAT THE GLASS TO BE USED IS LABELED AS "NON-IMPACT RESISTANT" AND IS DESIGNED TO MEET ASTM E-1300 STANDARDS. THE SUBSTITUTED GLAZING MUST BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER AND THE MANUFACTURER

NOTES:

1. GLAZED GEOMETRICAL SHAPES MAY BE USED PROVIDED THEY FIT INSIDE THE APPROVED INSCRIBED SIZES.
2. GLAZING DETAILS WITH A SILICONE BITE OF 1 3/8" ARE PERMITTED TO BE DECREASED TO A MINIMUM OF 1 3/16" SILICONE BITE, PROVIDED THE ALLOWABLE PRESSURES SHOWN ON GLASS CHARTS ARE DECREASED BY 16%
3. OPTION OF .019" CERAMIC FRIT ON ROOM SIDE SURFACE OF INNER PANE GLASS
4. GLASS MAY BE VERTICALLY OR HORIZONTALLY ORIENTED
5. OPTIONAL GLASS CAPS, FINS, OR SIMILAR ACCESORIES OF VARIOUS SIZES MAY BE ATTACHED WITH SILICONE, BASED ON SITE SPECIFIC CALCULATIONS
6. CONDITIONS WHERE THE GLASS EXTENDS PAST THE FRAME ARE ALLOWED AS LONG AS THE GLASS IS SUPPORTED BY A STRUCTURALLY SOUND SUBSTRATE. THIS CONDITION SHALL REQUIRE APPROVAL BY A PROFESSIONAL ENGINEER.
7. NON IMPACT GLASS TO BE DESIGNED ON A SITE SPECIFIC BASIS AND APPROVED BY A PROFESSIONAL ENGINEER.
8. GLASS PLIES NOT IN CONTACT WITH STRUCTURAL SILICONE MAYBE A GREATER THICKNESS THAN THOSE SHOWN, AND SHALL BE CHECKED AND APPROVED BY THE MANUFACTURER AND PROFESSIONAL ENGINEER ON A SITE SPECIFIC BASIS.



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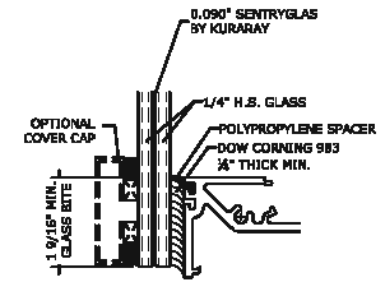
GLASS TYPE A & A1 - LOADING CHART (L.M.I.)

30 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	145
78	120	145
84	120	145
90	120	145
96	120	145
102	120	145
108	120	145
114	120	145
120	120	145
126	120	145
132	120	145
138	120	145
144	120	145
150	120	145
156	120	145
162	120	145
168	120	145
174	120	145
180	120	145
186	120	145
189	120	145
192	120	145
198	120	145
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126
233	120	126
240	120	126
246	120	126
252	120	126

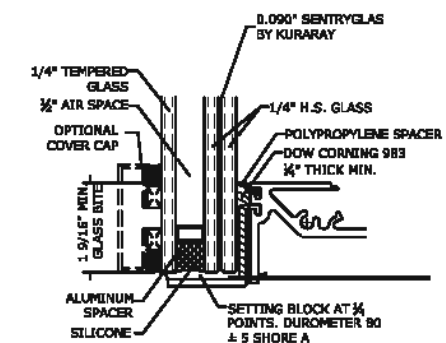
36 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	145
78	120	145
84	120	145
90	120	145
96	120	145
102	120	145
108	120	145
114	120	145
120	120	145
126	120	145
132	120	145
138	120	145
144	120	145
150	120	145
156	120	145
162	120	145
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126
233	120	126
240	120	126
246	120	126
252	120	126

42 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	145
78	120	145
84	120	145
90	120	145
96	120	145
102	120	145
108	120	145
114	120	145
120	120	145
126	120	145
132	120	145
138	120	145
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126
233	120	126
240	120	126
246	120	126
252	120	126

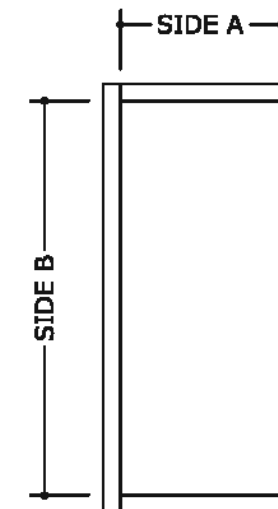
48 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	145
78	120	145
84	120	145
90	120	145
96	120	145
102	120	145
108	120	145
114	120	145
120	120	145
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126



GLASS TYPE **A**
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 3/8" GLASS



GLASS TYPE **A1**
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1 1/8" GLASS



D.L.O. = DAYLIGHT OPENING

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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
 FLORIDA STATE APPROVAL

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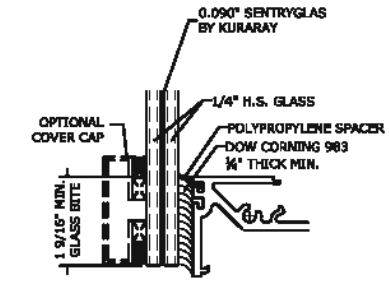
GLASS TYPE A & A1 - LOADING CHART (L.M.I.)

54 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	136
60	120	136
66	120	136
72	120	136
78	120	136
84	120	136
90	120	136
96	120	136
102	120	136
108	120	136
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126

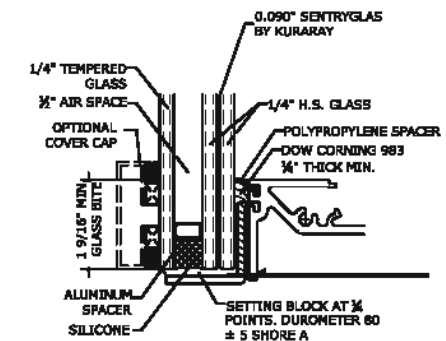
58 1/2 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126

60 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	126
60	120	123
66	120	123
72	120	123
78	120	123
84	120	123
90	120	123
96	117	123
102	117	122
108	117	122
114	117	122
120	117	122
126	117	122
132	117	122
138	117	122
144	117	122
150	117	122
156	117	122
162	117	122
168	117	122
174	117	122
180	117	122

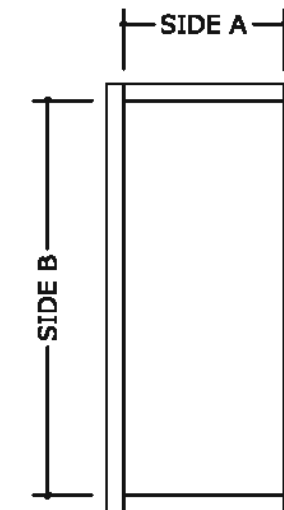
66 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	126
60	120	123
66	120	123
72	120	120
78	120	120
84	120	120
90	119	119
96	110	111
102	106	111
108	106	111
114	106	111
120	106	111
126	106	111
132	106	111
138	106	111
144	106	111
150	106	111
156	106	111
162	106	111



GLASS TYPE **A**
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
3/4" GLASS



GLASS TYPE **A1**
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
1 3/4" GLASS



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08

GLASS TYPE A & A1 - LOADING CHART (L.M.I.)

72 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	126
60	120	123
66	120	120
72	120	120
78	120	120
84	120	120
90	112	112
96	97	102
102	97	102
108	97	102
114	97	102
120	97	102
126	97	102
132	97	102
138	97	102
144	97	102
150	97	102

78 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	126
60	120	123
66	120	120
72	120	120
78	115	115
84	113	113
90	90	94
96	90	94
102	90	94
108	90	94
114	90	94
120	90	94
126	90	94
132	90	94
138	90	94

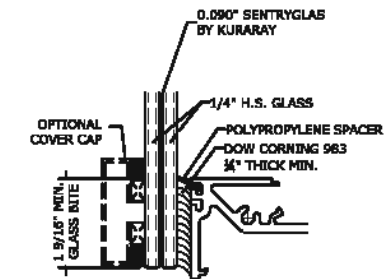
84 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	126
60	120	123
66	120	120
72	120	120
78	113	113
84	83	87
90	83	87
96	83	87
102	83	87
108	83	87
114	83	87
120	83	87
126	83	87

90 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	126
60	120	123
66	119	119
72	112	112
78	90	94
84	83	87
90	78	81
96	78	81
102	78	81
108	78	81
114	78	81
120	78	81

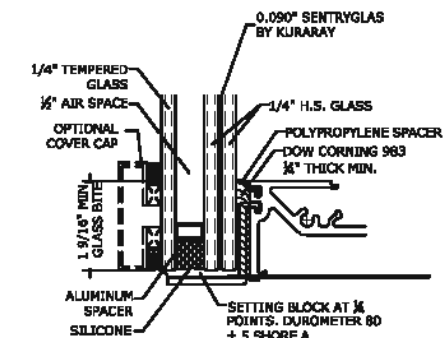
96 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	126
60	117	123
66	106	111
72	97	102
78	90	94
84	83	87
90	78	81
96	73	76
102	73	76
108	73	76
114	73	76

102 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	126
60	117	122
66	106	111
72	97	102
78	90	94
84	83	87
90	78	81
96	73	76
102	68	72
108	68	72

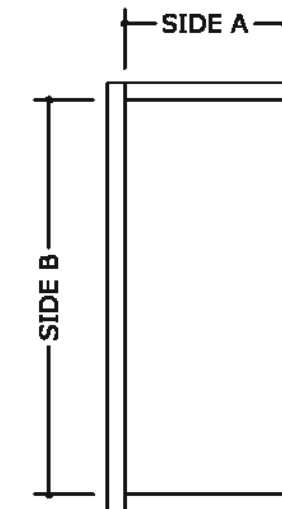
108 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	136
58 1/2	120	126
60	117	122
66	106	111
72	97	102
78	90	94
84	83	87
90	78	81
96	73	76
102	68	72



GLASS TYPE **A**
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
3/8" GLASS



GLASS TYPE **A1**
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
1 3/8" GLASS



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09

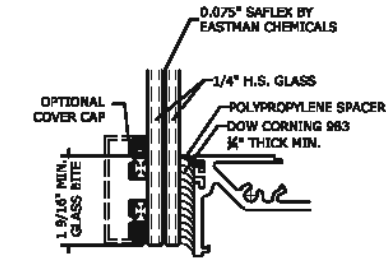
GLASS TYPE B & B1 - LOADING CHART (L.M.I.)

30 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100

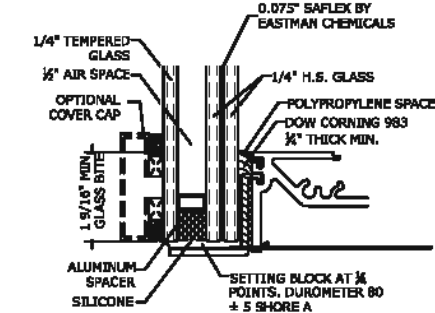
36 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100

42 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100

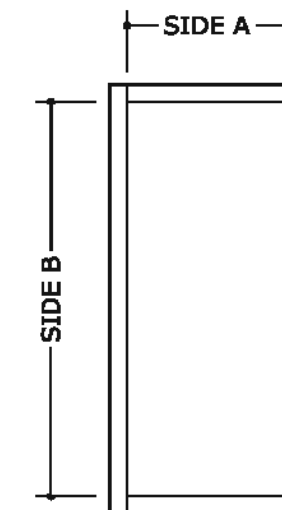
48 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100



GLASS TYPE **B**
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1/8" GLASS



GLASS TYPE **B1**
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1 1/8" GLASS



D.L.O. = DAYLIGHT OPENING



FL#29520.2

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GLASS TYPE B & B1 - LOADING CHART (L.M.I.)

54 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100

58 1/2 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100

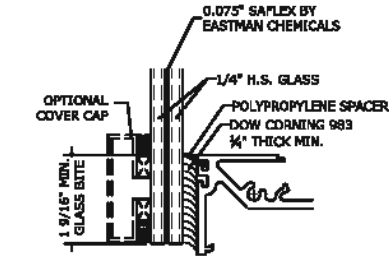
60 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100

66 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100

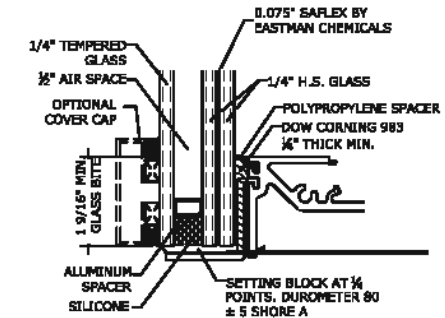
72 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100

78 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100

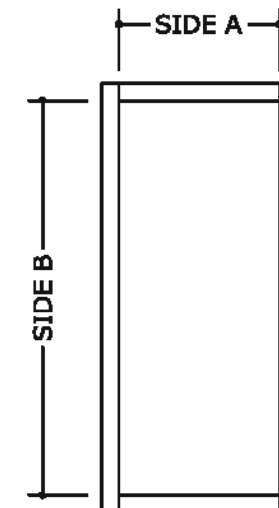
84 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100



GLASS TYPE **B**
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
1 1/8" GLASS



GLASS TYPE **B1**
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
1 1/8" GLASS



D.L.O. = DAYLIGHT OPENING

FRANK BENNARDO, P.E.
PE# 0046549 CA 9885



FL#29520.2

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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
FLORIDA STATE APPROVAL

REMARKS	DATE	DRWN	CHKD
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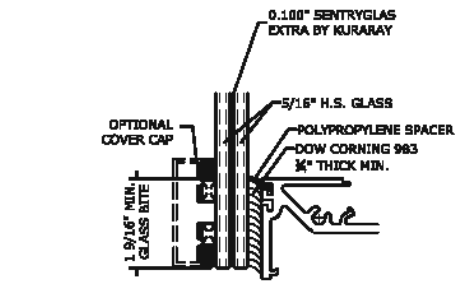
GLASS TYPE E & E1 - LOADING CHART (L.M.I.)

30 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126
233	120	126
240	120	126
246	120	126
252	120	126

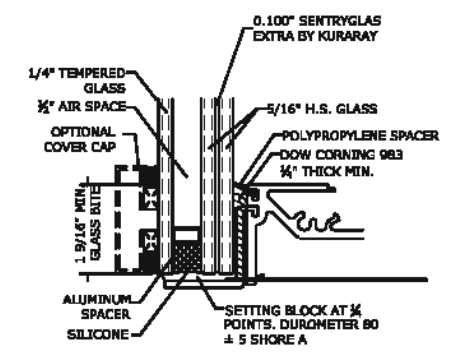
36 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126
233	120	126
240	120	126
246	120	126
252	120	126

42 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126
233	120	126
240	120	126
246	120	126
252	120	126

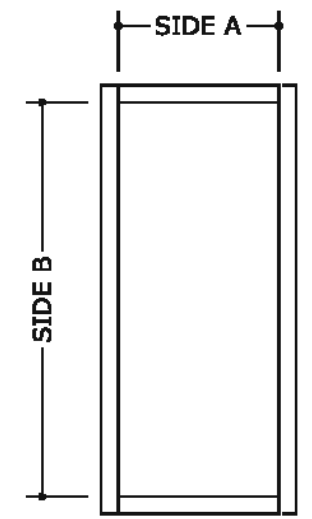
48 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126



GLASS TYPE \diamond
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
3/8" GLASS



GLASS TYPE \diamond
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
1 1/8" GLASS



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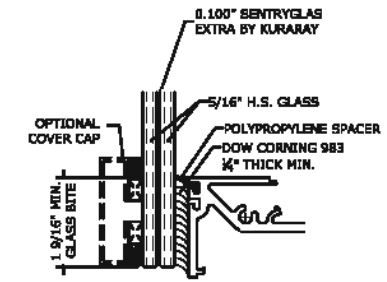
GLASS TYPE E & E1 - LOADING CHART (L.M.I.)

54 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126

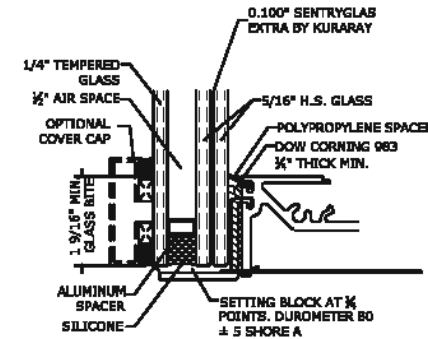
58 1/2 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126

60 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	117	122
72	117	122
78	117	122
84	117	122
90	117	122
96	117	122
102	117	122
108	117	122
114	117	122
120	117	122
126	117	122
132	117	122
138	117	122
144	117	122
150	117	122
156	117	122
162	117	122
168	117	122
174	117	122
180	117	122

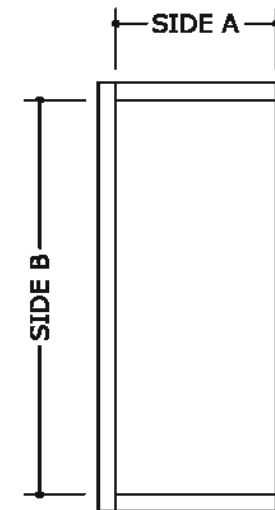
66 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	106	111
72	106	111
78	106	111
84	106	111
90	106	111
96	106	111
102	106	111
108	106	111
114	106	111
120	106	111
126	106	111
132	106	111
138	106	111
144	106	111
150	106	111
156	106	111
162	106	111



GLASS TYPE
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1/8" GLASS



GLASS TYPE
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1/8" GLASS



D.L.O. = DAYLIGHT OPENING

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GLASS TYPE E & E1 - LOADING CHART (L.M.I.)

72 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	106	111
72	97	102
78	97	102
84	97	102
90	97	102
96	97	102
102	97	102
108	97	102
114	97	102
120	97	102
126	97	102
132	97	102
138	97	102
144	97	102
150	97	102

78 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	106	111
72	97	102
78	90	94
84	90	94
90	90	94
96	90	94
102	90	94
108	90	94
114	90	94
120	90	94
126	90	94
132	90	94
138	90	94

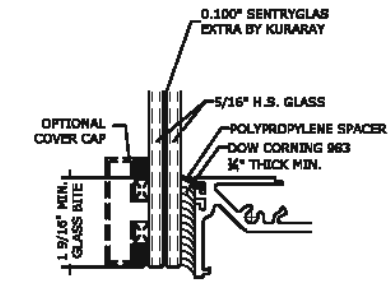
84 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	106	111
72	97	102
78	90	94
84	83	87
90	83	87
96	83	87
102	83	87
108	83	87
114	83	87
120	83	87
126	83	87

90 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	106	111
72	97	102
78	90	94
84	83	87
90	78	81
96	78	81
102	78	81
108	78	81
114	78	81
120	78	81

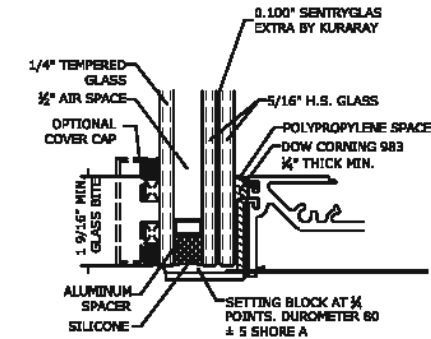
96 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	106	111
72	97	102
78	90	94
84	83	87
90	78	81
96	73	76
102	73	76
108	73	76
114	73	76

102 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	106	111
72	97	102
78	90	94
84	83	87
90	78	81
96	73	76
102	68	72
108	68	72

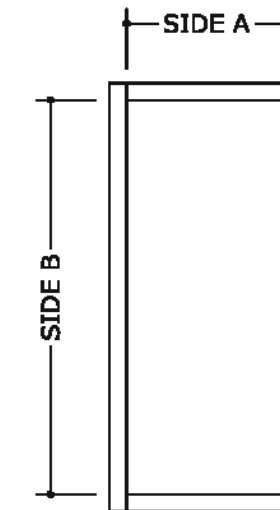
108 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	106	111
72	97	102
78	90	94
84	83	87
90	78	81
96	73	76
102	68	72



GLASS TYPE
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 3/8" GLASS



GLASS TYPE
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL D
 1 1/8" GLASS



FL#29520.2

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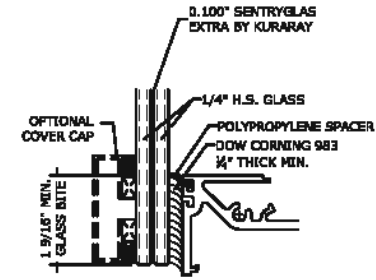
GLASS TYPE F & F1 - LOADING CHART (L.M.I.)

58 1/2 (in.)		
	(+) P.S.F	(-) P.S.F
58 1/2	80	80
60	80	80
66	80	80
72	80	80
78	80	80
84	80	80
90	80	80
96	80	80
102	80	80
108	80	80
114	80	80
120	80	80
126	80	80
132	80	80
138	80	80
144	80	80
150	80	80
156	80	80
162	80	80
168	80	80
174	80	80
180	80	80
186	80	80
189	80	80

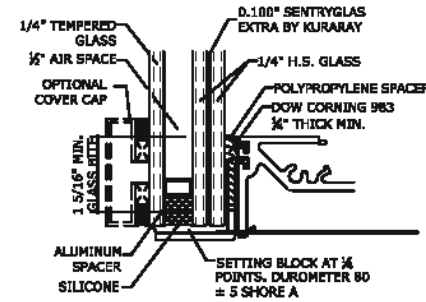
60 (in.)		
	(+) P.S.F	(-) P.S.F
58 1/2	80	80
60	78	78
66	78	78
72	78	78
78	78	78
84	78	78
90	78	78
96	78	78
102	78	78
108	78	78
114	78	78
120	78	78
126	78	78
132	78	78
138	78	78
144	78	78
150	78	78
156	78	78
162	78	78
168	78	78
174	78	78
180	78	78

66 (in.)		
	(+) P.S.F	(-) P.S.F
58 1/2	80	80
60	78	78
66	70	70
72	70	70
78	70	70
84	70	70
90	70	70
96	70	70
102	70	70
108	70	70
114	70	70
120	70	70
126	70	70
132	70	70
138	70	70
144	70	70
150	70	70
156	70	70
162	70	70

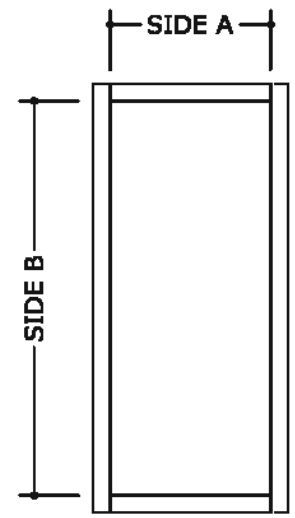
72 (in.)		
	(+) P.S.F	(-) P.S.F
58 1/2	80	80
60	78	78
66	70	70
72	65	65
78	65	65
84	65	65
90	65	65
96	65	65
102	65	65
108	65	65
114	65	65
120	65	65
126	65	65
132	65	65
138	65	65
144	65	65
150	65	65



GLASS TYPE \diamond
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1/2" GLASS



GLASS TYPE \diamond
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1 1/2" GLASS



D.L.O. = DAYLIGHT OPENING

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 PE# 0046549 CA 9885



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GLASS TYPE F & F1 - LOADING CHART (L.M.I.)

78 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	80	80
60	78	78
66	70	70
72	65	65
78	60	60
84	60	60
90	60	60
96	60	60
102	60	60
108	60	60
114	60	60
120	60	60
126	60	60
132	60	60
138	60	60

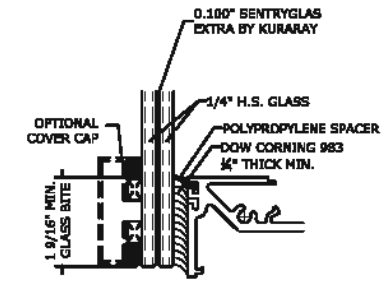
84 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	80	80
60	78	78
66	70	70
72	65	65
78	60	60
84	55	55
90	55	55
96	55	55
102	55	55
108	55	55
114	55	55
120	55	55
126	55	55

90 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	80	80
60	78	78
66	70	70
72	65	65
78	60	60
84	55	55
90	52	52
96	52	52
102	52	52
108	52	52
114	52	52
120	52	52

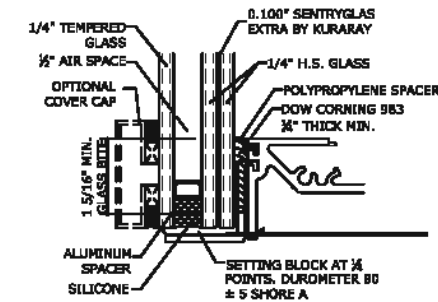
96 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	80	80
60	78	78
66	70	70
72	65	65
78	60	60
84	55	55
90	52	52
96	48	48
102	48	48
108	48	48
114	48	48

102 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	80	80
60	78	78
66	70	70
72	65	65
78	60	60
84	55	55
90	52	52
96	48	48
102	45	45
108	45	45

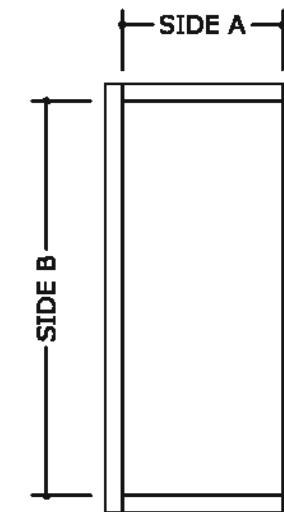
108 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	80	80
60	78	78
66	70	70
72	65	65
78	60	60
84	55	55
90	52	52
96	48	48
102	45	45



GLASS TYPE \diamond
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 3/8" GLASS



GLASS TYPE \diamond
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1 1/8" GLASS



D.L.O. = DAYLIGHT OPENING

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FL#29520.2

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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
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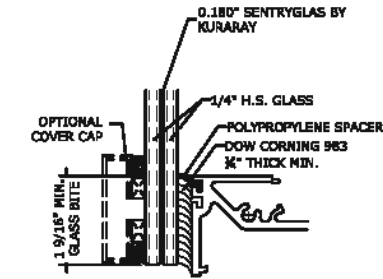
GLASS TYPE C & C1 - LOADING CHART (L.M.I.)

30 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	120	120
90	120	120
96	120	120
102	120	120
108	120	120
114	120	120
120	120	120
126	120	120
132	120	120
138	120	120
144	120	120
150	120	120
156	120	120
162	120	120
168	120	120
174	120	120
180	120	120
186	120	120
189	120	120
192	120	120
198	120	120
204	120	120
210	120	120

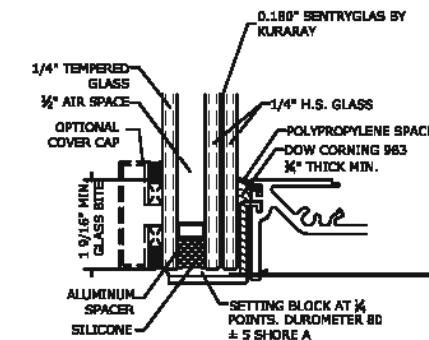
36 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	120	120
90	120	120
96	120	120
102	120	120
108	120	120
114	120	120
120	120	120
126	120	120
132	120	120
138	120	120
144	120	120
150	120	120
156	120	120
162	120	120
168	120	120
174	120	120

42 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	120	120
90	120	120
96	120	120
102	120	120
108	120	120
114	120	120
120	120	120
126	120	120
132	120	120
138	120	120
144	120	120
150	120	120

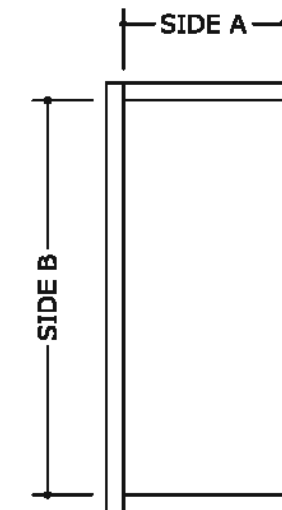
48 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	120	120
90	120	120
96	120	120
102	120	120
108	120	120
114	112	112
120	112	112
126	112	112



GLASS TYPE
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL E
 3/8" GLASS



GLASS TYPE
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL E
 1 3/8" GLASS



D.L.O. = DAYLIGHT OPENING

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GLASS TYPE C & C1 - LOADING CHART (L.M.I.)

54 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	120	120
90	120	120
96	120	120
102	120	120
108	120	120
114	120	120

58 1/2 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	120	120
90	120	120
96	120	120
102	120	120

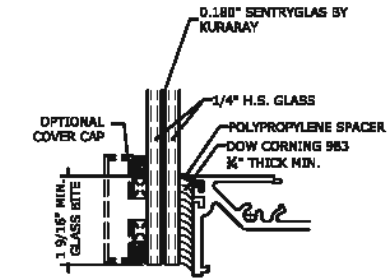
60 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	120	120
90	120	120
96	120	120
102	120	120

66 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	120	120
90	120	120

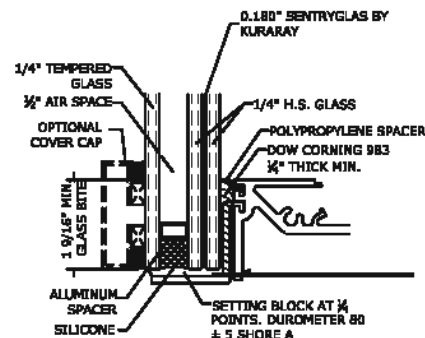
72 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	120	120
90	120	120

78 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120

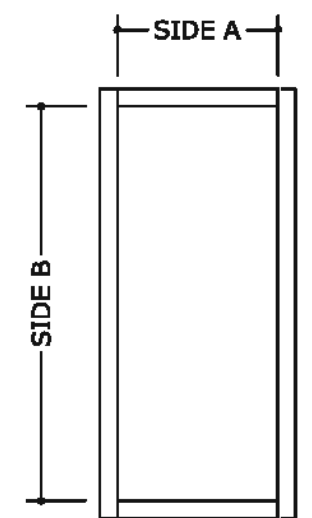
84 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	120
36	120	120
42	120	120
48	120	120
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120



GLASS TYPE
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL E
 3/8\"/>



GLASS TYPE
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 LARGE MISSILE LEVEL E
 1 1/8\"/>



D.L.O. = DAYLIGHT OPENING

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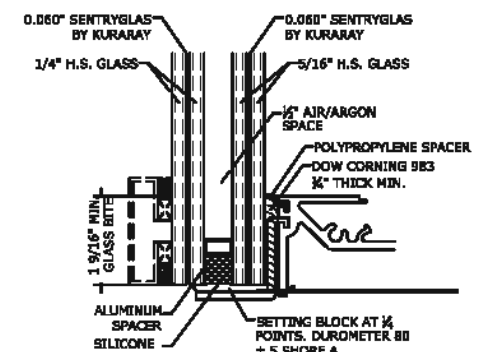
GLASS TYPE D - LOADING CHART (L.M.I.)

30 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100
252	100	100

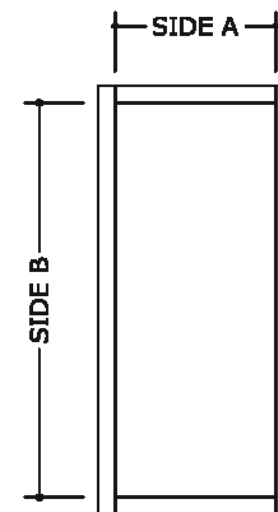
36 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100
252	100	100

42 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100
252	100	100

48 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100
252	100	100



GLASS TYPE
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1 3/8" GLASS



D.L.O. = DAYLIGHT OPENING

FRANK BENNARDO, P.E.
 PE# 0046549 CA 9885



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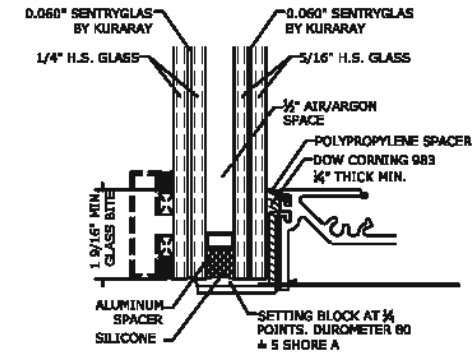
GLASS TYPE D - LOADING CHART (L.M.I.)

54 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
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216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100
252	100	100

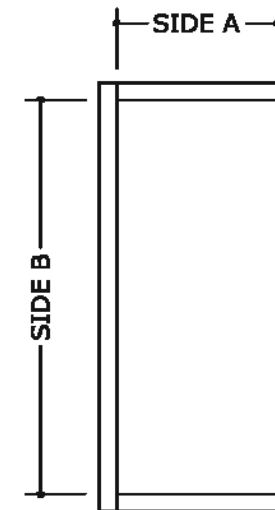
58 1/2 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100
252	100	100

60 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100
252	100	100

66 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100
252	100	100



GLASS TYPE
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
1 1/2" GLASS



D.L.O. = DAYLIGHT OPENING

FRANK BENNARDO, P.E.
PE# 0046549 CA 9885



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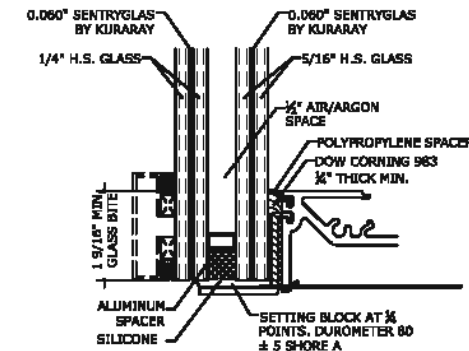
GLASS TYPE D - LOADING CHART (L.M.I.)

72 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100
252	100	100

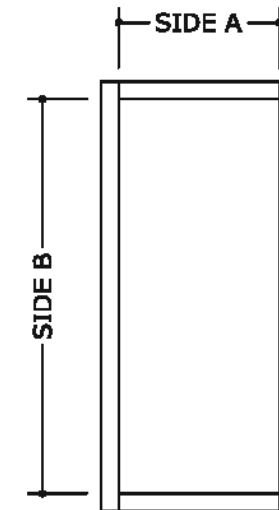
78 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100
252	100	100

84 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100
233	100	100
240	100	100
246	100	100

90 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100
210	100	100
216	100	100
222	100	100
228	100	100



GLASS TYPE **D**
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1 3/8" GLASS



D.L.O. = DAYLIGHT OPENING



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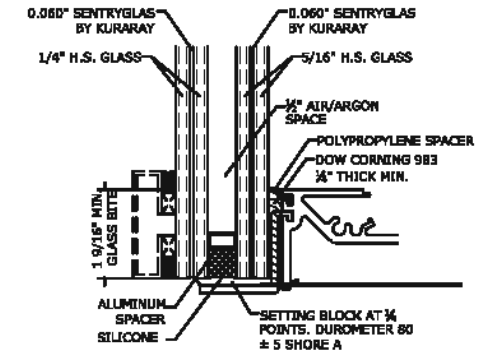
GLASS TYPE D - LOADING CHART (L.M.I.)

96 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
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204	100	100
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216	100	100

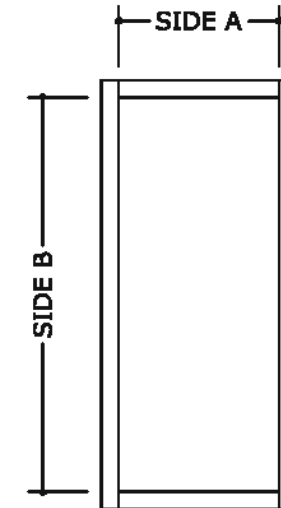
102 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	100	100
114	100	100
120	100	100
126	100	100
132	100	100
138	100	100
144	100	100
150	100	100
156	100	100
162	100	100
168	100	100
174	100	100
180	100	100
186	100	100
189	100	100
192	100	100
198	100	100
204	100	100

108 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	98	98
114	98	98
120	98	98
126	98	98
132	98	98
138	98	98
144	98	98
150	98	98
156	98	98
162	98	98
168	98	98
174	98	98
180	98	98
186	98	98
189	98	98
192	98	98

114 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	98	98
114	93	93
120	93	93
126	93	93
132	93	93
138	93	93
144	93	93
150	93	93
156	93	93
162	93	93
168	93	93
174	93	93
180	93	93



GLASS TYPE
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1 13/16" GLASS



D.L.O. = DAYLIGHT OPENING

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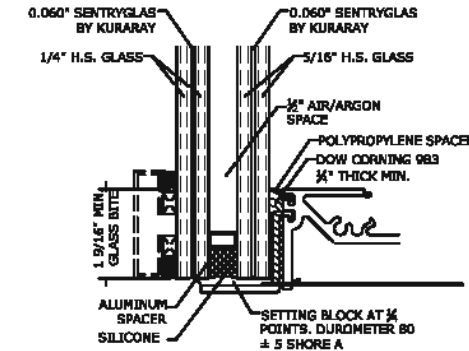
22

GLASS TYPE D - LOADING CHART (L.M.I.)

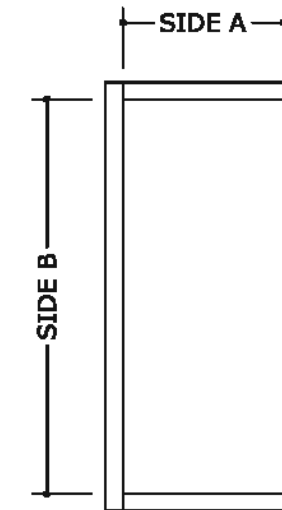
120 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	98	98
114	93	93
120	88	88
126	88	88
132	88	88
138	88	88
144	88	88
150	88	88
156	88	88
162	88	88
168	88	88
174	88	88

126 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	98	98
114	93	93
120	88	88
126	84	84
132	84	84
138	84	84
144	84	84
150	84	84
156	84	84
162	84	84

132 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	100	100
36	100	100
42	100	100
48	100	100
54	100	100
58 1/2	100	100
60	100	100
66	100	100
72	100	100
78	100	100
84	100	100
90	100	100
96	100	100
102	100	100
108	98	98
114	93	93
120	88	88
126	84	84
132	80	80
138	80	80
144	80	80
150	80	80
156	80	80



GLASS TYPE 
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 LARGE MISSILE LEVEL D
 1 3/8" GLASS



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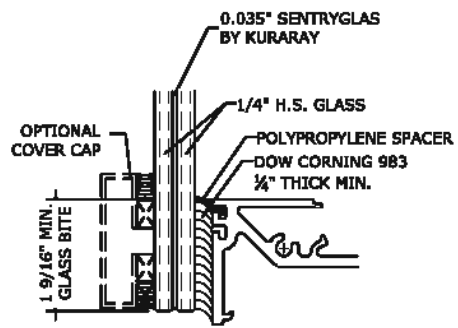
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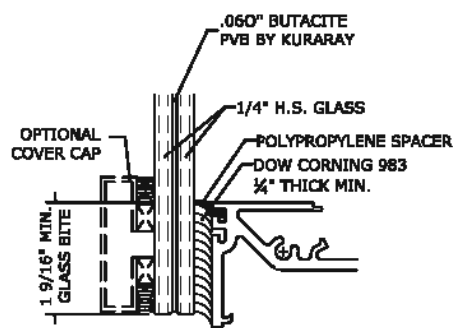
D.L.O. = DAYLIGHT OPENING

GLASS TYPES (S.M.I.)



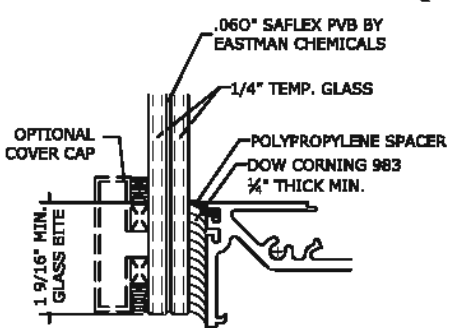
GLASS TYPE A
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
3/8\"/>



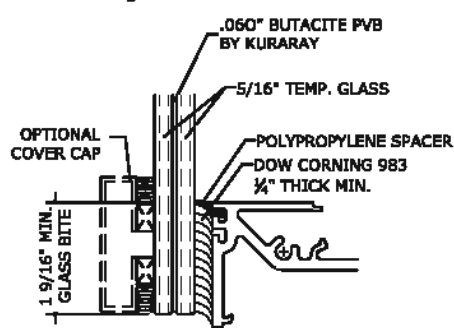
GLASS TYPE B
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
3/8\"/>



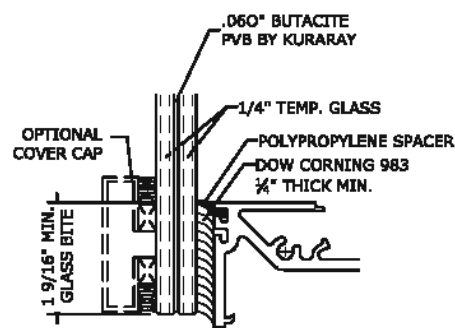
GLASS TYPE C
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
3/8\"/>



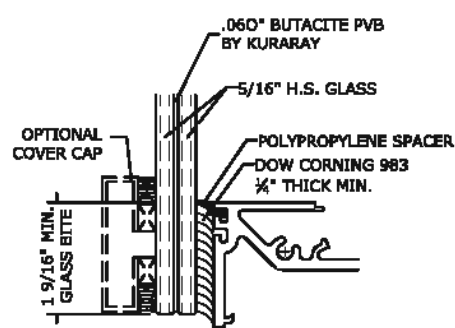
GLASS TYPE D
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
3/8\"/>



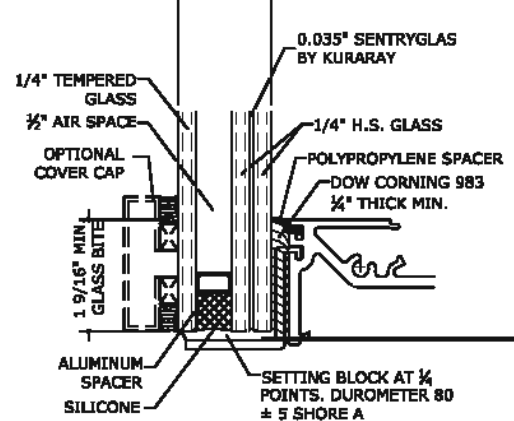
GLASS TYPE E
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
3/8\"/>



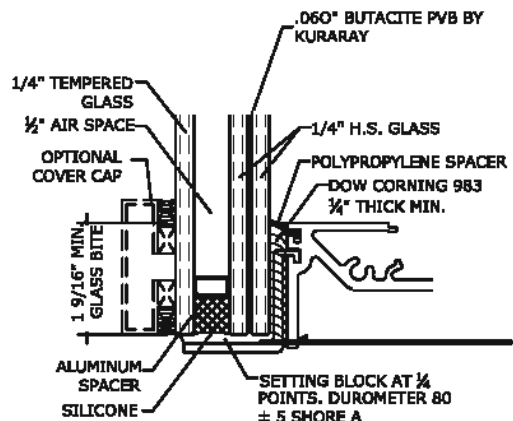
GLASS TYPE F
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
3/8\"/>



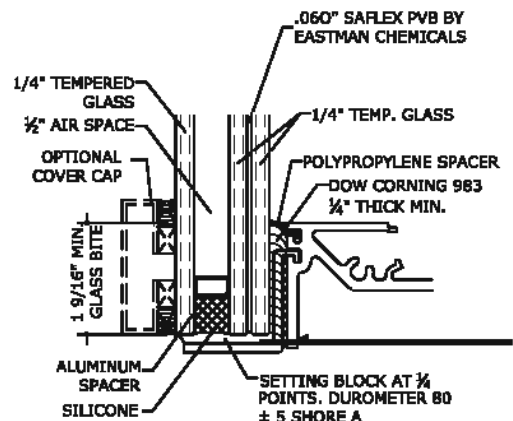
GLASS TYPE A1
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 3/8\"/>



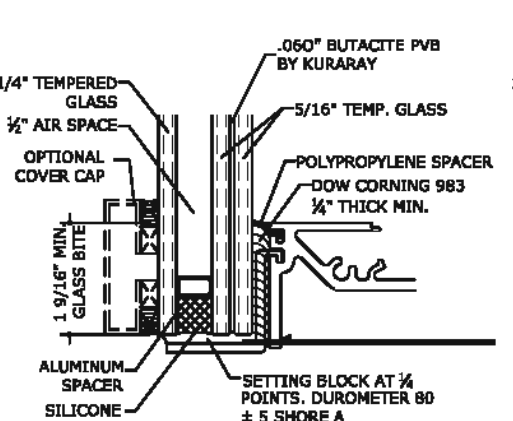
GLASS TYPE B1
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 3/8\"/>



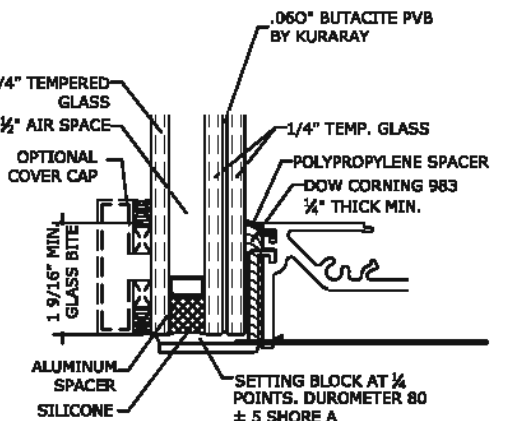
GLASS TYPE C1
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 3/8\"/>



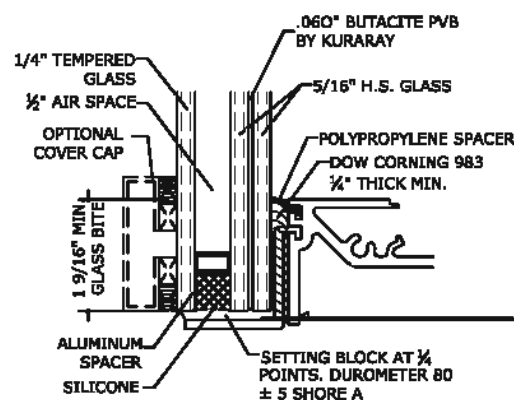
GLASS TYPE D1
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 3/8\"/>



GLASS TYPE E1
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 3/8\"/>



GLASS TYPE F1
GLAZING DETAIL

N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 3/8\"/>

NOTES:

THICKER GLASS LITES MAY BE USED IN THE SAME CONFIGURATIONS AS SHOWN ABOVE, AS REQUIRED ON A SITE SPECIFIC BASIS. IF THICKER LITES ARE USED, IT SHALL BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER.

CURVED OR BENT GLAZING MAY BE USED IN THE SAME CONFIGURATIONS AS SHOWN ABOVE, IN ACCORDANCE WITH SITE SPECIFIC REQUIREMENTS. IF CURVED OR BENT GLAZING IS USED, IT SHALL BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER AND THE MANUFACTURER. FINAL APPROVAL SHALL BE GIVEN BY STATE AUTHORITY HAVING JURISDICTION.

NON-LAMINATED, MONOLITHIC GLASS MAY BE USED IN PLACE OF THE LAMINATED OPTIONS, SHOWN ON PAGE ABOVE, GIVEN THAT THE GLASS TO BE USED IS LABELED AS "NON-IMPACT RESISTANT" AND IS DESIGNED TO MEET ASTM E-1300 STANDARDS. THE SUBSTITUTED GLAZING MUST BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER AND THE MANUFACTURER

NOTES:

- GLAZED GEOMETRICAL SHAPES MAY BE USED PROVIDED THEY FIT INSIDE THE APPROVED INSCRIBED SIZES.
- GLAZING DETAILS WITH A SILICONE BITE OF 1 3/8" ARE PERMITTED TO BE DECREASED TO A MINIMUM OF 1 1/8" SILICONE BITE, PROVIDED THE ALLOWABLE PRESSURES SHOWN ON GLASS CHARTS ARE DECREASED BY 16%
- OPTION OF .019" CERAMIC FRIT ON ROOM SIDE SURFACE OF INNER PANE GLASS
- GLASS MAY BE VERTICALLY OR HORIZONTALLY ORIENTED
- OPTIONAL GLASS CAPS, FINS, OR SIMILAR ACCESORIES OF VARIOUS SIZES MAY BE ATTACHED WITH SILICONE, BASED ON SITE SPECIFIC CALCULATIONS
- CONDITIONS WHERE THE GLASS EXTENDS PAST THE FRAME ARE ALLOWED AS LONG AS THE GLASS IS SUPPORTED BY A STRUCTURALLY SOUND SUBSTRATE. THIS CONDITION SHALL REQUIRE APPROVAL BY A PROFESSIONAL ENGINEER.
- NON IMPACT GLASS TO BE DESIGNED ON A SITE SPECIFIC BASIS AND APPROVED BY A PROFESSIONAL ENGINEER.
- GLASS PLIES NOT IN CONTACT WITH STRUCTURAL SILICONE MAYBE A GREATER THICKNESS THAN THOSE SHOWN, AND SHALL BE CHECKED AND APPROVED BY THE MANUFACTURER AND PROFESSIONAL ENGINEER ON A SITE SPECIFIC BASIS.



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GLASS TYPES A, A1 LOADING CHARTS (S.M.I.)

30 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	145
78	120	145
84	120	145
90	120	145
96	120	145
102	120	145
108	120	145
114	120	145
120	120	145
126	120	145
132	120	120
138	120	120
144	120	120
150	120	120
156	120	120
162	120	120

36 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	145
78	120	145
84	120	145
90	120	145
96	120	145
102	120	145
108	120	145
114	120	120
120	120	120
126	120	120
132	120	120
138	120	120
144	120	120
150	120	120
156	120	120
162	120	120

42 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	145
78	120	145
84	120	145
90	120	145
96	120	120
102	120	120
108	120	120
114	120	120
120	120	120
126	120	120
132	120	120
138	120	120
144	120	120
150	120	120

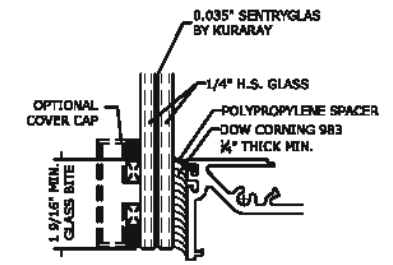
48 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	145
78	120	145
84	120	145
90	120	145
96	120	120
102	120	120
108	120	120
114	120	120
120	120	120
126	120	120

54 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	145
78	120	145
84	120	120
90	120	120
96	120	120
102	120	120
108	120	120
114	116	116

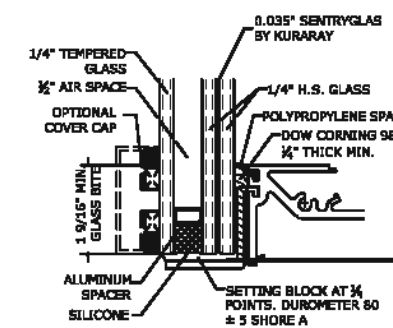
58 1/2 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	145
78	120	120
84	120	120
90	120	120
96	120	120
102	119	119
108	113	113

60 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	120
78	120	120
84	120	120
90	120	120
96	120	120
102	119	119

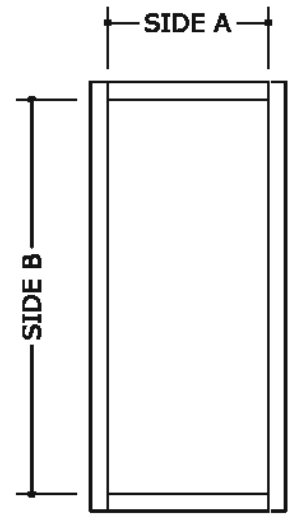
66 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	145
60	120	145
66	120	145
72	120	120
78	120	120
84	120	120
90	120	120
96	120	120



GLASS TYPE Δ
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1/2" GLASS



GLASS TYPE Δ
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 1/2" GLASS



D.L.O. = DAYLIGHT OPENING

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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
FLORIDA STATE APPROVAL

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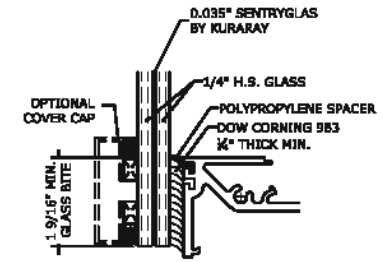
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GLASS TYPES A, A1 LOADING CHARTS (S.M.I.)

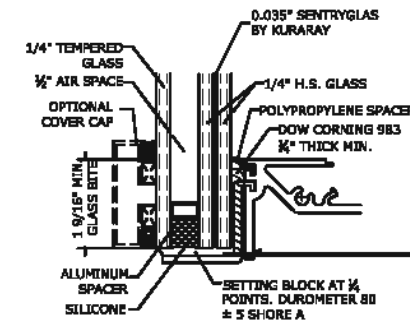
72 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	145
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	120	120
90	120	120

78 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120
84	115	115

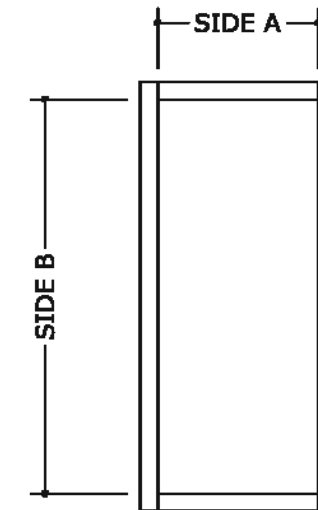
84 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	145
36	120	145
42	120	145
48	120	145
54	120	120
58 1/2	120	120
60	120	120
66	120	120
72	120	120
78	120	120



GLASS TYPE 
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 SMALL MISSILE IMPACT
 1/8" GLASS



GLASS TYPE 
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 SMALL MISSILE IMPACT
 1 1/8" GLASS



D.L.O. = DAYLIGHT OPENING

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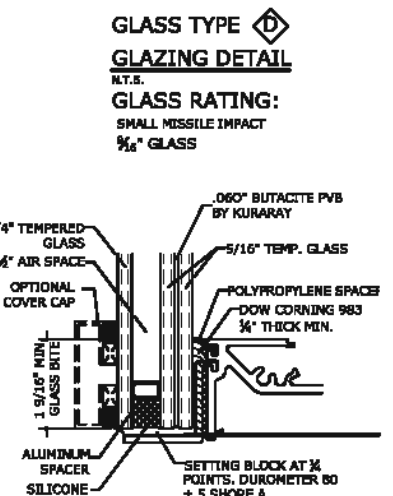
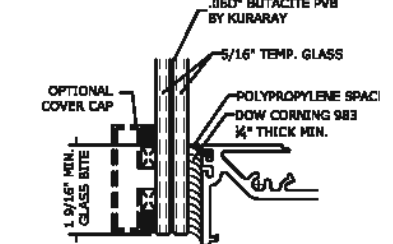
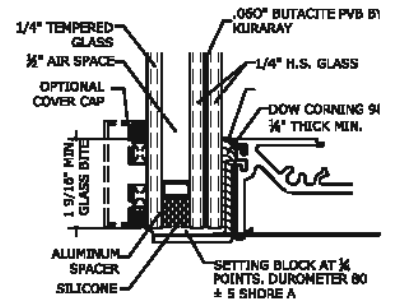
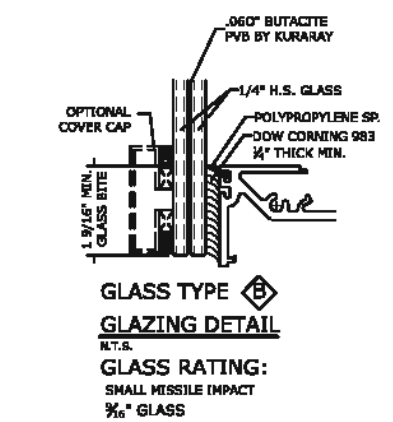
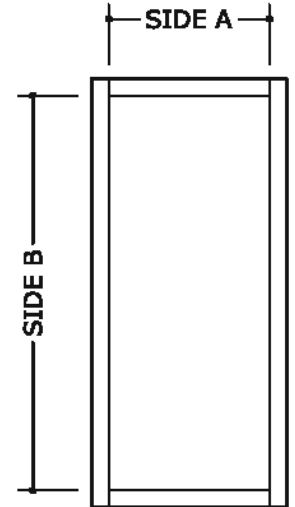
GLASS TYPES B, B1, D, D1 LOADING CHARTS (S.M.I.)

30 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	120	132
66	120	132
72	120	132
78	120	132
84	120	132
90	120	132
96	120	132
102	120	132
108	120	132
114	120	132
120	120	132
126	120	132
132	120	132
138	120	132
144	120	132
150	120	132
156	120	132
162	120	132
168	120	132
174	120	132
180	120	132
186	120	132
189	120	132
192	120	132
198	120	132
204	120	132
210	120	132
216	120	132
222	120	132
228	120	132
233	120	132
240	120	132
246	120	132
252	120	132

36 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	120	132
66	120	132
72	120	132
78	120	132
84	120	132
90	120	132
96	120	132
102	120	132
108	120	132
114	120	132
120	120	132
126	120	132
132	120	132
138	120	132
144	120	132
150	120	132
156	120	132
162	120	132
168	120	132
174	120	132
180	120	132
186	120	132
189	120	132
192	120	132
198	120	132
204	120	132
210	120	132
216	120	132
222	120	132
228	120	132
233	120	132
240	120	132
246	120	132
252	120	132

42 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	120	132
66	120	132
72	120	132
78	120	132
84	120	132
90	120	132
96	120	132
102	120	132
108	120	132
114	120	132
120	120	132
126	120	132
132	120	132
138	120	132
144	120	132
150	120	132
156	120	132
162	120	132
168	120	132
174	120	132
180	120	132
186	120	132
189	120	132
192	120	132
198	120	132
204	120	132
210	120	132
216	120	132
222	120	132
228	120	132
233	120	132
240	120	132
246	120	132
252	120	132

48 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	120	132
66	120	132
72	120	132
78	120	132
84	120	132
90	120	132
96	120	132
102	120	132
108	120	132
114	120	132
120	120	132
126	120	132
132	120	132
138	120	132
144	120	132
150	120	132
156	120	132
162	120	132
168	120	132
174	120	132
180	120	132
186	120	132
189	120	132
192	120	132
198	120	132
204	120	132
210	120	132
216	120	132
222	120	132
228	120	132
233	120	132
240	120	132
246	120	132
252	120	132



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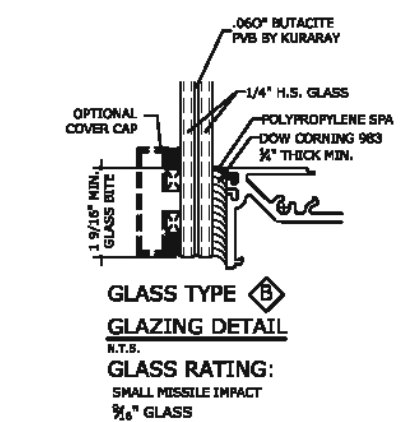
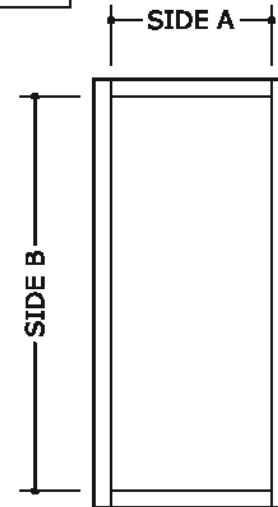
GLASS TYPES B, B1, D, D1 LOADING CHARTS (S.M.I.)

54 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F.	(-) P.S.F.
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	120	132
66	120	132
72	120	132
78	120	132
84	120	132
90	120	132
96	120	132
102	120	132
108	120	132
114	120	132
120	120	132
126	120	132
132	120	132
138	120	132
144	120	132
150	120	132
156	120	132
162	120	132
168	120	132
174	120	132
180	120	132
186	120	132
189	120	132
192	120	132
198	120	132
204	120	132
210	120	132
216	120	132
222	120	132
228	120	132
233	120	132
240	120	132
246	120	132
252	120	132

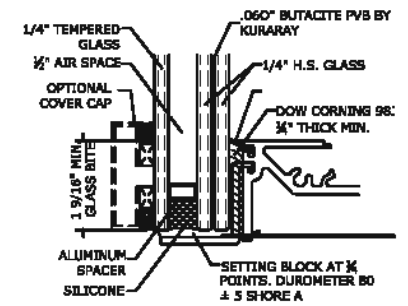
58 1/2 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F.	(-) P.S.F.
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	120	132
66	120	132
72	120	132
78	120	132
84	120	132
90	120	132
96	120	132
102	120	132
108	120	132
114	120	132
120	120	132
126	120	132
132	120	132
138	120	132
144	120	132
150	120	132
156	120	132
162	120	132
168	120	132
174	120	132
180	120	132
186	120	132
189	120	132
192	120	132
198	120	132
204	120	132
210	120	132
216	120	132
222	120	132
228	120	132
233	120	132

60 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F.	(-) P.S.F.
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	117	128
66	117	128
72	117	128
78	117	128
84	117	128
90	117	128
96	117	128
102	117	128
108	117	128
114	117	128
120	117	128
126	117	128
132	117	128
138	117	128
144	117	128
150	117	128
156	117	128
162	117	128
168	117	128
174	117	128
180	117	128
186	117	128
189	117	128
192	117	128
198	117	128
204	117	128
210	117	128
216	117	128
222	117	128

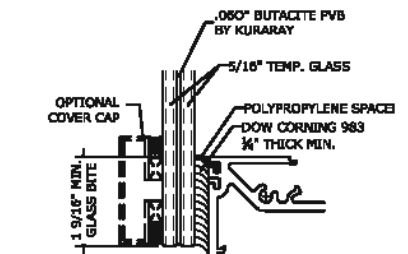
66 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F.	(-) P.S.F.
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	117	128
66	106	117
72	106	117
78	106	117
84	106	117
90	106	117
96	106	117
102	106	117
108	106	117
114	106	117
120	106	117
126	106	117
132	106	117
138	106	117
144	106	117
150	106	117
156	106	117
162	106	117
168	106	117
174	106	117
180	106	117
186	106	117
189	106	117
192	106	117
198	106	117
204	106	117



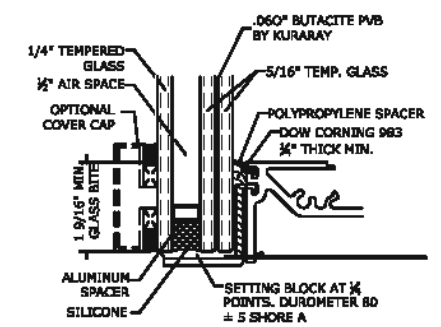
GLASS TYPE \diamond
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 SMALL MISSILE IMPACT
 $\frac{1}{8}$ " GLASS



GLASS TYPE \diamond
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 SMALL MISSILE IMPACT
 1 $\frac{1}{8}$ " GLASS



GLASS TYPE \diamond
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 SMALL MISSILE IMPACT
 $\frac{1}{8}$ " GLASS



GLASS TYPE \diamond
GLAZING DETAIL
 N.T.S.
GLASS RATING:
 SMALL MISSILE IMPACT
 1 $\frac{1}{8}$ " GLASS

D.L.O. = DAYLIGHT OPENING

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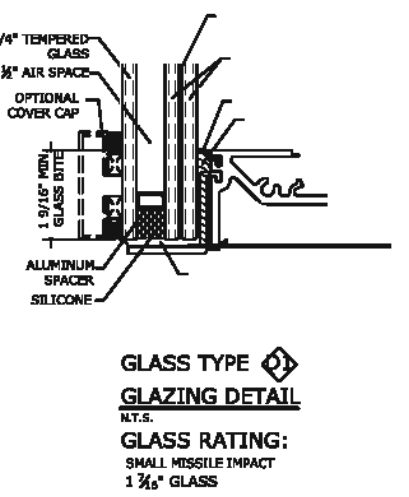
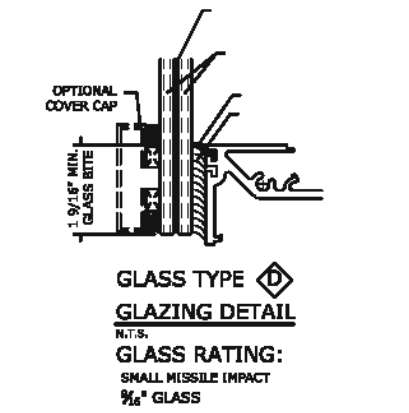
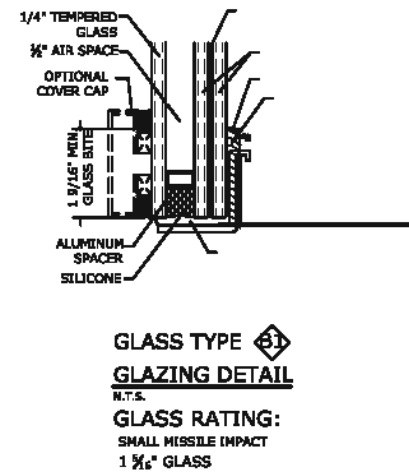
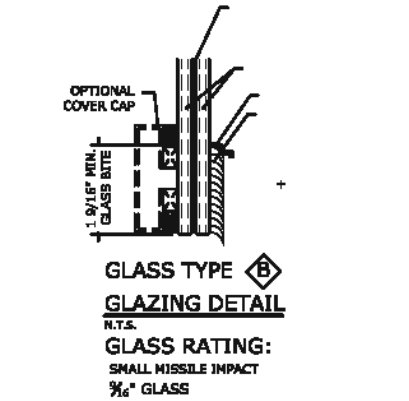
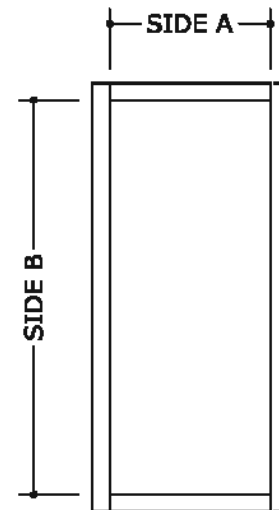
72 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	97	107
84	97	107
90	97	107
96	97	107
102	97	107
108	97	107
114	97	107
120	97	107
126	97	107
132	97	107
138	97	107
144	97	107
150	97	107
156	97	107
162	97	107
168	97	107
174	97	107
180	97	107
186	97	107
189	97	107

78 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	90	99
90	90	99
96	90	99
102	90	99
108	90	99
114	90	99
120	90	99
126	90	99
132	90	99
138	90	99
144	90	99
150	90	99
156	90	99
162	90	99
168	90	99
174	90	99

84 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	83	91
96	83	91
102	83	91
108	83	91
114	83	91
120	83	91
126	83	91
132	83	91
138	83	91
144	83	91
150	83	91
156	83	91
162	83	91

90 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	132
36	120	132
42	120	132
48	120	132
54	120	132
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85
96	78	85
102	78	85
108	78	85
114	78	85
120	78	85
126	78	85
132	78	85
138	78	85
144	78	85
150	78	85

D.L.O. = DAYLIGHT OPENING



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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
FLORIDA STATE APPROVAL

REMARKS	DATE	DRWN	CHKD
ERIC 2020 UPDATE	08/08/20	JPC	AJF

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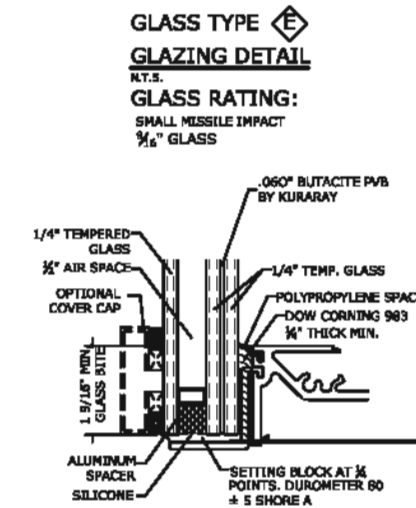
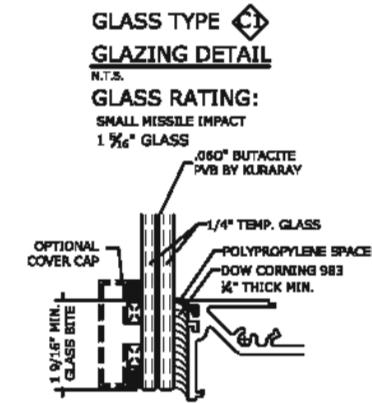
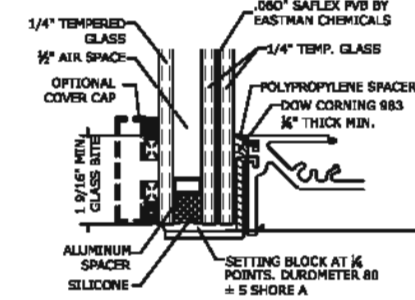
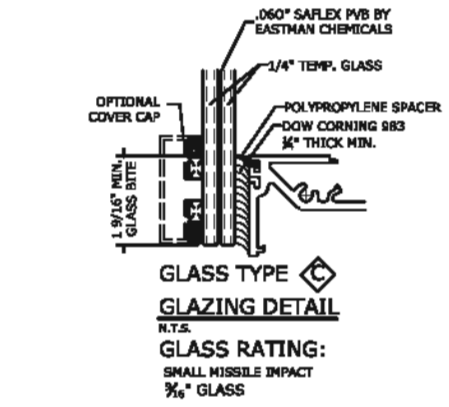
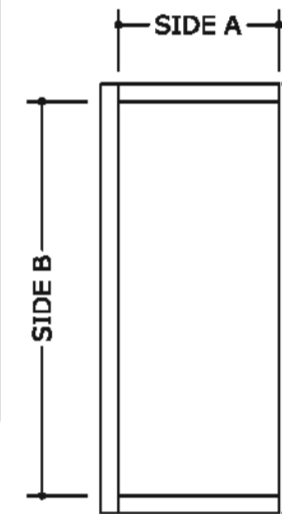
GLASS TYPES C, C1, E, E1 LOADING CHARTS (S.M.I.)

30 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126
233	120	126
240	120	126
246	120	126
252	120	126

36 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126
233	120	126
240	120	126
246	120	126
252	120	126

42 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126
233	120	126
240	120	126
246	120	126
252	120	126

48 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126
210	120	126
216	120	126
222	120	126
228	120	126



D.L.O. = DAYLIGHT OPENING

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PE# 0046549 CA 9885



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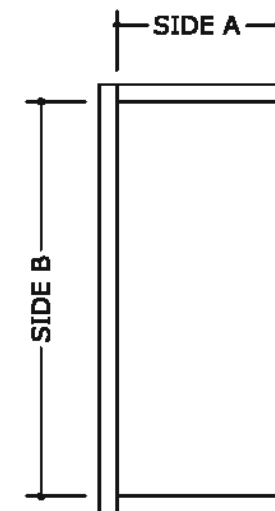
GLASS TYPES C, C1, E, E1 LOADING CHARTS (S.M.I.)

54 (in.)		
SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
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174	120	126
180	120	126
186	120	126
189	120	126
192	120	126
198	120	126
204	120	126

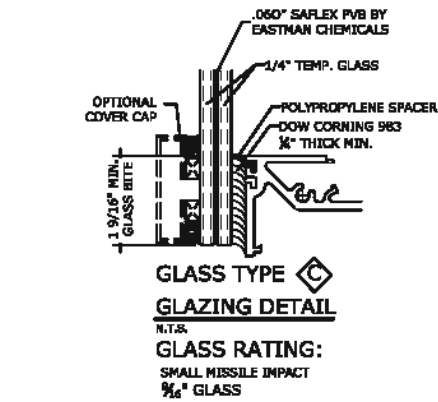
58 1/2 (in.)		
SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	126
66	120	126
72	120	126
78	120	126
84	120	126
90	120	126
96	120	126
102	120	126
108	120	126
114	120	126
120	120	126
126	120	126
132	120	126
138	120	126
144	120	126
150	120	126
156	120	126
162	120	126
168	120	126
174	120	126
180	120	126
186	120	126
189	120	126

60 (in.)		
SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	117	122
72	117	122
78	117	122
84	117	122
90	117	122
96	117	122
102	117	122
108	117	122
114	117	122
120	117	122
126	117	122
132	117	122
138	117	122
144	117	122
150	117	122
156	117	122
162	117	122
168	117	122
174	117	122
180	117	122

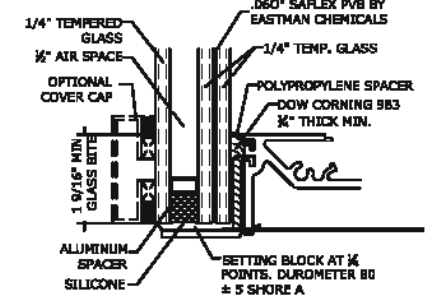
66 (in.)		
SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	106	111
72	106	111
78	106	111
84	106	111
90	106	111
96	106	111
102	106	111
108	106	111
114	106	111
120	106	111
126	106	111
132	106	111
138	106	111
144	106	111
150	106	111
156	106	111
162	106	111



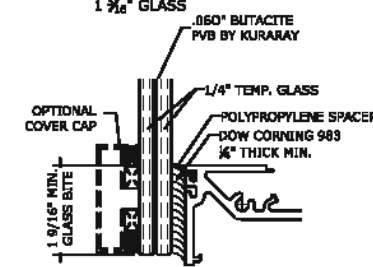
D.L.O. = DAYLIGHT OPENING



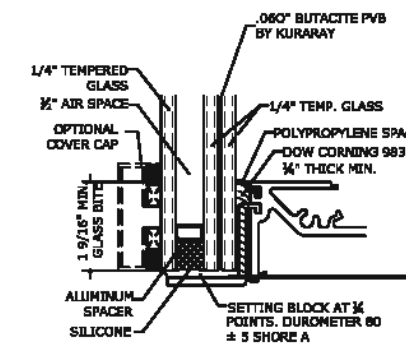
GLASS TYPE **C**
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 SMALL MISSILE IMPACT
 1/2\"/>



GLASS TYPE **C1**
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 SMALL MISSILE IMPACT
 1 1/2\"/>



GLASS TYPE **E**
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 SMALL MISSILE IMPACT
 1/2\"/>



GLASS TYPE **E1**
 GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 SMALL MISSILE IMPACT
 1 1/2\"/>



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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
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GLASS TYPES C, C1, E, E1 LOADING CHARTS (S.M.I.)

72 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	122
66	120	120
72	120	120
78	115	115
84	97	102
90	97	102
96	97	102
102	97	102
108	97	102
114	97	102
120	97	102
126	97	102
132	97	102
138	97	102
144	97	102
150	97	102

78 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	122
66	120	120
72	120	120
78	115	115
84	90	94
90	90	94
96	90	94
102	90	94
108	90	94
114	90	94
120	90	94
126	90	94
132	90	94
138	90	94

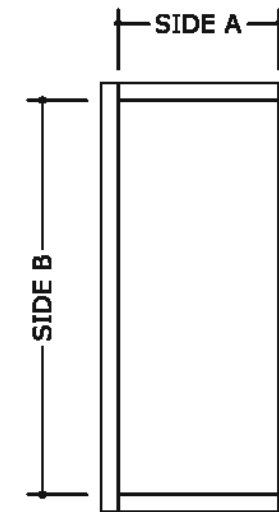
84 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	120	122
66	120	120
72	120	120
78	113	113
84	83	87
90	83	87
96	83	87
102	83	87
108	83	87
114	83	87
120	83	87
126	83	87

90 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	106	111
72	97	102
78	90	94
84	83	87
90	78	81
96	78	81
102	78	81
108	78	81
114	78	81
120	78	81

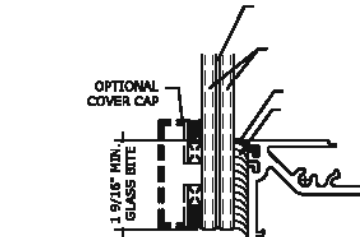
96 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	110	111
72	97	102
78	90	94
84	83	87
90	78	81
96	73	76
102	73	76
108	73	76
114	73	76

102 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	110	111
72	97	102
78	90	94
84	83	87
90	78	81
96	73	76
102	68	72
108	68	72

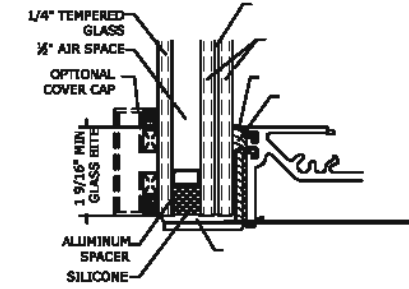
108 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
30	120	126
36	120	126
42	120	126
48	120	126
54	120	126
58 1/2	120	126
60	117	122
66	110	111
72	97	102
78	90	94
84	83	87
90	78	81
96	73	76
102	68	72



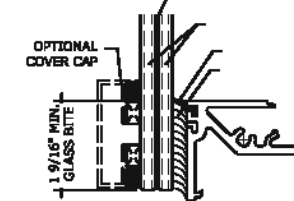
D.L.O. = DAYLIGHT OPENING



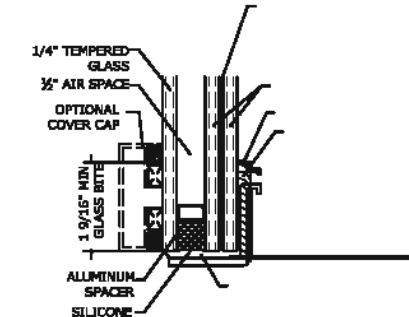
GLASS TYPE
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1/2" GLASS



GLASS TYPE
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 1/2" GLASS



GLASS TYPE
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1/2" GLASS



GLASS TYPE
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 1/2" GLASS

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GLASS TYPE F, F1 - LOADING CHART (S.M.I.)

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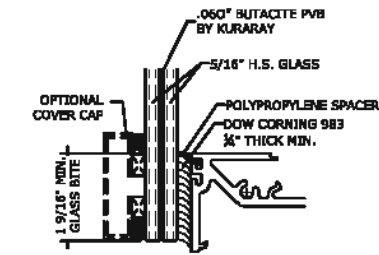
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58 1/2 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	120	132
66	120	132
72	120	132
78	120	132
84	120	132
90	120	132
96	120	132
102	120	132
108	120	132
114	120	132
120	120	132
126	120	132
132	120	132
138	120	132
144	120	132
150	120	132
156	120	132
162	120	132
168	120	132
174	120	132
180	120	132
186	120	132
189	120	132
192	120	132
198	120	132
204	120	132
210	120	132
216	120	132
222	120	132
228	120	132
233	120	132

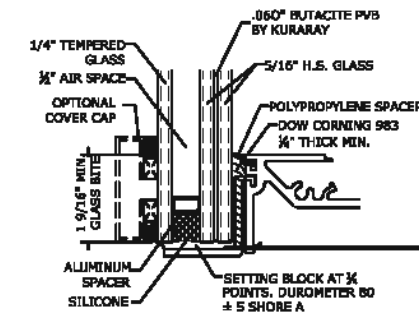
60.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	117	128
72	117	128
78	117	128
84	117	128
90	117	128
96	117	128
102	117	128
108	117	128
114	117	128
120	117	128
126	117	128
132	117	128
138	117	128
144	117	128
150	117	128
156	117	128
162	117	128
168	117	128
174	117	128
180	117	128
186	117	128
189	117	128
192	117	128
198	117	128
204	117	128
210	117	128
216	117	128
222	117	128

66.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	106	117
78	106	117
84	106	117
90	106	117
96	106	117
102	106	117
108	106	117
114	106	117
120	106	117
126	106	117
132	106	117
138	106	117
144	106	117
150	106	117
156	106	117
162	106	117
168	106	117
174	106	117
180	106	117
186	106	117
189	106	117
192	106	117
198	106	117
204	106	117

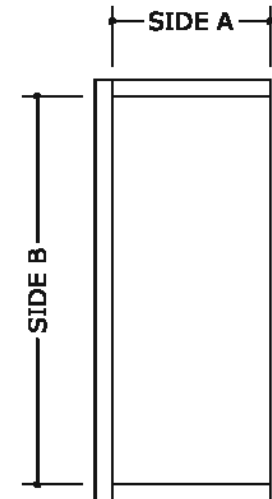
72.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (In.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	97	107
84	97	107
90	97	107
96	97	107
102	97	107
108	97	107
114	97	107
120	97	107
126	97	107
132	97	107
138	97	107
144	97	107
150	97	107
156	97	107
162	97	107
168	97	107
174	97	107
180	97	107
186	97	107
189	97	107



GLASS TYPE \square
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 3/8" GLASS



GLASS TYPE \square
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 3/8" GLASS



D.L.O. = DAYLIGHT OPENING

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33

GLASS TYPE F, F1 - LOADING CHART (S.M.I.)

78.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	90	99
90	90	99
96	90	99
102	90	99
108	90	99
114	90	99
120	90	99
126	90	99
132	90	99
138	90	99
144	90	99
150	90	99
156	90	99
162	90	99
168	90	99
174	90	99

84.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	83	91
96	83	91
102	83	91
108	83	91
114	83	91
120	83	91
126	83	91
132	83	91
138	83	91
144	83	91
150	83	91
156	83	91
162	83	91

90.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85
96	78	85
102	78	85
108	78	85
114	78	85
120	78	85
126	78	85
132	78	85
138	78	85
144	78	85
150	78	85

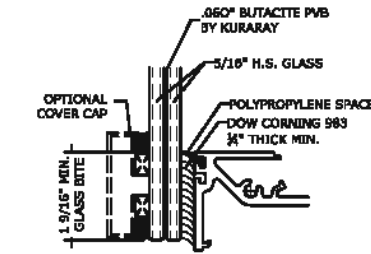
96.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85
96	73	80
102	73	80
108	73	80
114	73	80
120	73	80
126	73	80
132	73	80
138	73	80

102.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85
96	73	80
102	68	75
108	68	75
114	68	75
120	68	75
126	68	75
132	68	75

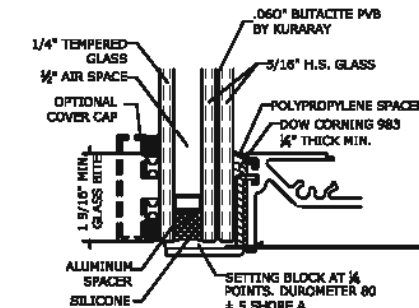
108.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85
96	73	80
102	68	75
108	65	71
114	65	71
120	65	71
126	65	71

114.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85
96	73	80
102	68	75
108	65	71
114	61	67

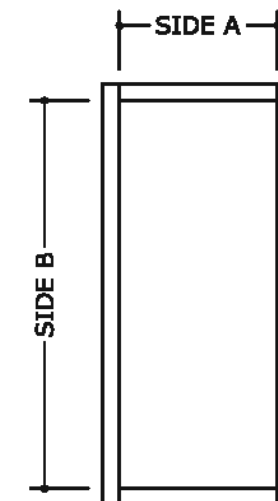
120.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85
96	73	80
102	68	75
108	65	71



GLASS TYPE **F**
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 SMALL MISSILE IMPACT
 1/2" GLASS



GLASS TYPE **F**
GLAZING DETAIL
 N.T.S.
 GLASS RATING:
 SMALL MISSILE IMPACT
 1 1/2" GLASS



D.L.O. = DAYLIGHT OPENING

FRANK BENNARDO, P.E.
 PE# 0046549 CA 9885



FL#29520.2

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 DEERFIELD BEACH, FL, 33442-8101
 Phn. (954) 698-6888
 PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
 FLORIDA STATE APPROVAL

REMARKS	DATE	DRWN	CHKD
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GLASS TYPE F, F1 - LOADING CHART (S.M.I.)

FRANK BENNARDO, P.E.
PE# 0046549 CA 9885

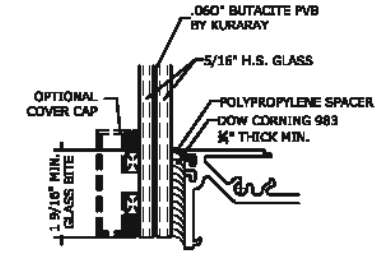


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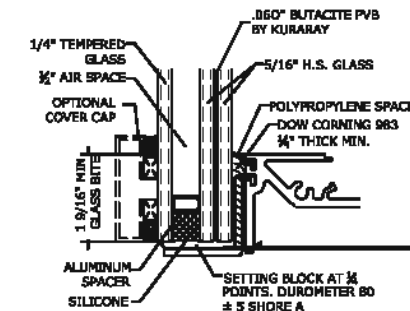
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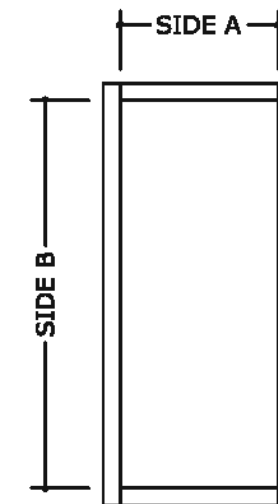
PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
FLORIDA STATE APPROVAL



GLASS TYPE \diamond
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
3/8" GLASS



GLASS TYPE \diamond
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 3/8" GLASS



126.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85
96	73	80
102	68	75
108	65	71

132.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85
96	73	80
102	68	75

138.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85
96	73	80

144.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85

150.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91
90	78	85

156.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91

162.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99
84	83	91

168.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99

174.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107
78	90	99

180.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107

186.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107

189.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117
72	97	107

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35

D.L.O. = DAYLIGHT OPENING

GLASS TYPE F, F1 - LOADING CHART (S.M.I.)

192.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117

198.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117

204.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128
66	106	117

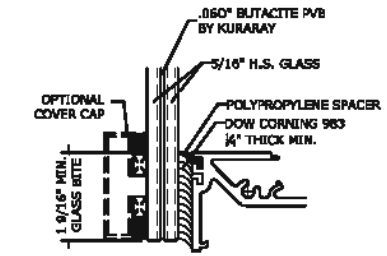
210.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128

216.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128

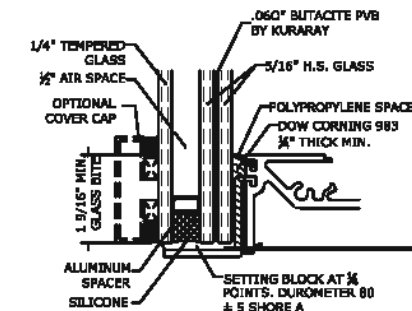
222.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132
60	117	128

228.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132

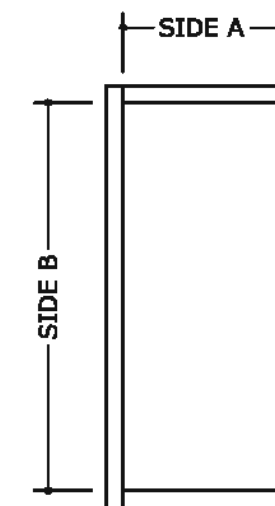
233.0 (in.) SIDE A OR B (D.L.O.)		
SIDE A OR B (D.L.O.) (in.)	(+) P.S.F	(-) P.S.F
58 1/2	120	132



GLASS TYPE \diamond
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 1/2\"/>



GLASS TYPE \diamond
GLAZING DETAIL
N.T.S.
GLASS RATING:
SMALL MISSILE IMPACT
1 1/2\"/>



D.L.O. = DAYLIGHT OPENING

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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
FLORIDA STATE APPROVAL

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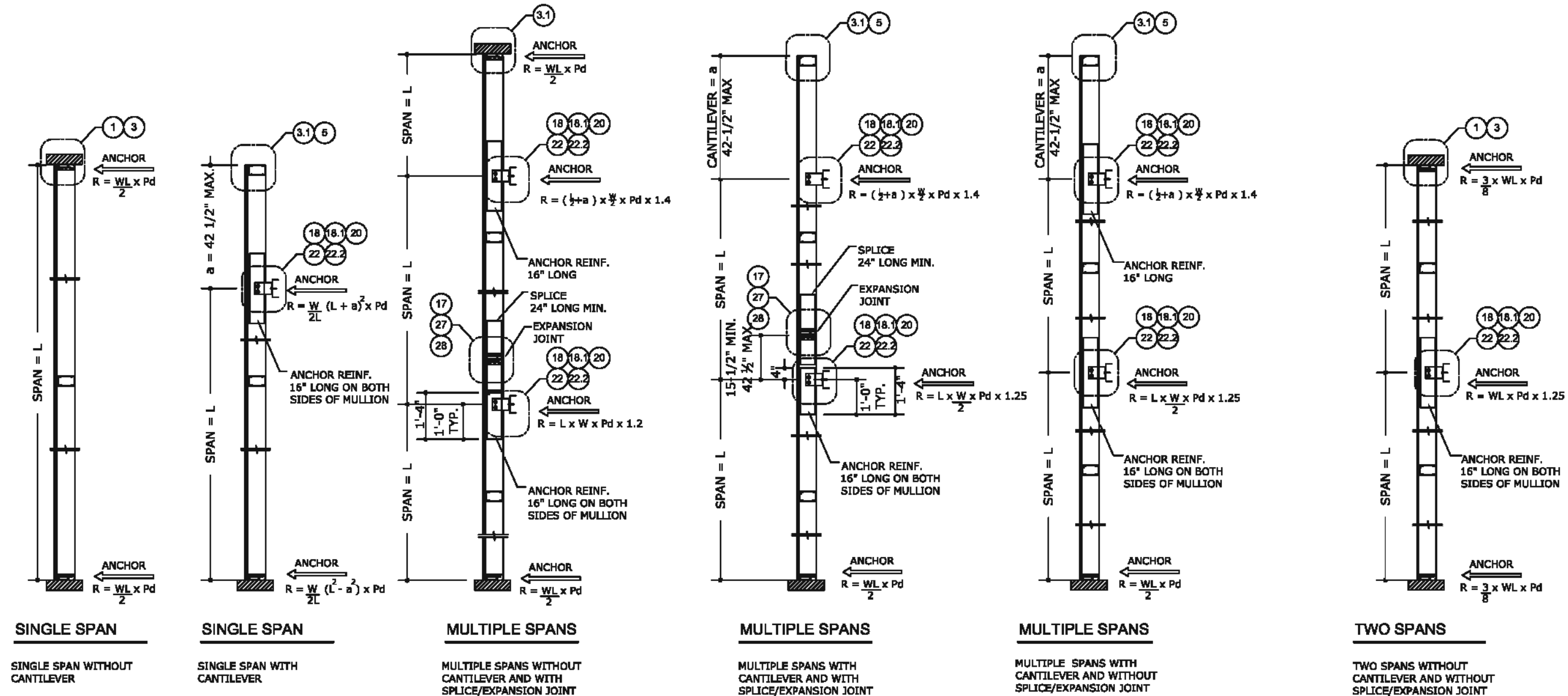
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TYPICAL CURTAIN WALL SECTIONS



CANTILEVER CONDITION(S) NOTE:
CANTILEVERED CONDITION IS ACCEPTABLE IN BOTH HEAD AND SILL LOCATIONS. IF THEY OCCUR SIMULTANEOUSLY SITE SPECIFIC ENGINEERING IS REQUIRED.

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SINGLE SPAN MULLION LOADING TABLES (P.S.F.)

WIDTH (in.)	HEIGHT 36 (in.)					
	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	160	160	160	160
42	120	145	160	160	160	160
48	120	145	160	160	160	160
54	120	145	160	160	160	160
60	120	145	160	160	160	160
62	120	145	160	160	160	160
66	120	145	160	160	160	160
69	120	145	160	160	160	160
72	120	145	160	160	160	160
78	120	145	160	160	160	160
84	120	145	160	160	160	160
90	120	145	160	160	160	160
96	120	145	160	160	160	160
102	120	145	160	160	160	160
108	120	145	160	160	160	160
114	120	145	160	160	160	160
120	120	145	160	160	160	160
126	120	145	160	160	160	160
132	120	145	160	160	160	160
138	120	145	160	160	160	160
144	120	145	160	160	160	160
150	120	145	160	160	160	160
156	120	145	160	160	160	160
162	120	145	160	160	160	160
168	120	145	160	160	160	160

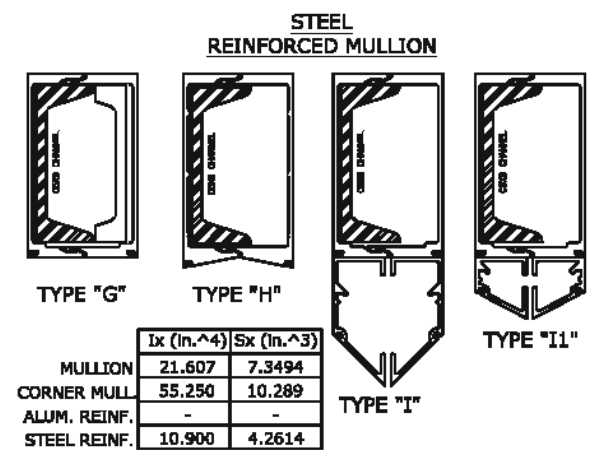
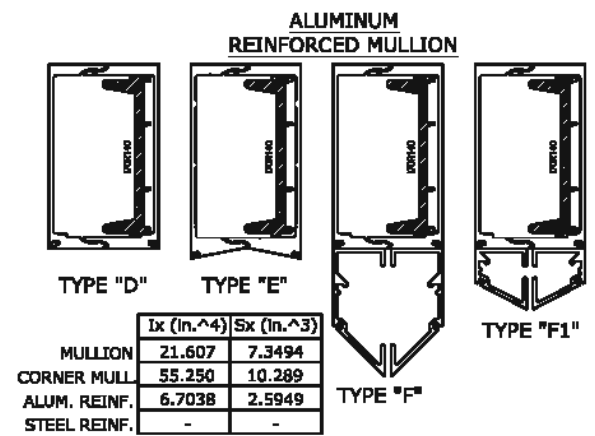
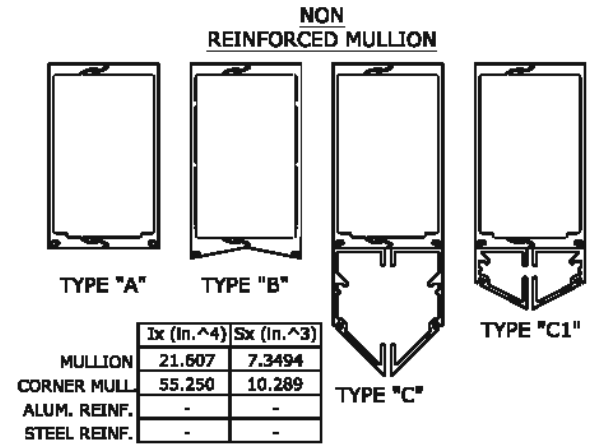
WIDTH (in.)	HEIGHT 42 (in.)					
	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	160	160	160	160
42	120	145	160	160	160	160
48	120	145	160	160	160	160
54	120	145	160	160	160	160
60	120	145	160	160	160	160
62	120	145	160	160	160	160
66	120	145	160	160	160	160
69	120	145	160	160	160	160
72	120	145	160	160	160	160
78	120	145	160	160	160	160
84	120	145	160	160	160	160
90	120	145	160	160	160	160
96	120	145	160	160	160	160
102	120	145	160	160	160	160
108	120	145	160	160	160	160
114	120	145	160	160	160	160
120	120	145	160	160	160	160
126	120	145	160	160	160	160
132	120	145	160	160	160	160
138	120	145	160	160	160	160
144	120	145	160	160	160	160
150	120	145	160	160	160	160
156	120	145	160	160	160	160
162	120	145	160	160	160	160
168	120	145	160	160	160	160

WIDTH (in.)	HEIGHT 48 (in.)					
	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	160	160	160	160
42	120	145	160	160	160	160
48	120	145	160	160	160	160
54	120	145	160	160	160	160
60	120	145	160	160	160	160
62	120	145	160	160	160	160
66	120	145	160	160	160	160
69	120	145	160	160	160	160
72	120	145	160	160	160	160
78	120	145	160	160	160	160
84	120	145	160	160	160	160
90	120	145	160	160	160	160
96	120	145	160	160	160	160
102	120	145	160	160	160	160
108	120	145	160	160	160	160
114	120	145	160	160	160	160
120	120	145	160	160	160	160
126	120	145	160	160	160	160
132	120	145	160	160	160	160
138	120	145	160	160	160	160
144	120	145	160	160	160	160
150	120	145	160	160	160	160
156	120	145	160	160	160	160
162	120	145	160	160	160	160
168	120	145	160	160	160	160

WIDTH (in.)	HEIGHT 54 (in.)					
	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	160	160	160	160
42	120	145	160	160	160	160
48	120	145	160	160	160	160
54	120	145	160	160	160	160
60	120	145	160	160	160	160
62	120	145	160	160	160	160
66	120	145	160	160	160	160
69	120	145	160	160	160	160
72	120	145	160	160	160	160
78	120	145	160	160	160	160
84	120	145	160	160	160	160
90	120	145	160	160	160	160
96	120	145	160	160	160	160
102	120	145	160	160	160	160
108	120	145	160	160	160	160
114	120	145	160	160	160	160
120	120	145	160	160	160	160
126	120	145	160	160	160	160
132	120	145	160	160	160	160
138	120	145	160	160	160	160
144	120	145	160	160	160	160
150	120	145	160	160	160	160
156	120	145	160	160	160	160
162	120	145	160	160	160	160
168	120	145	160	160	160	160

WIDTH (in.)	HEIGHT 60 (in.)					
	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	160	160	160	160
42	120	145	160	160	160	160
48	120	145	160	160	160	160
54	120	145	160	160	160	160
60	120	145	160	160	160	160
62	120	145	160	160	160	160
66	120	145	160	160	160	160
69	120	145	160	160	160	160
72	120	145	160	160	160	160
78	120	145	160	160	160	160
84	120	145	160	160	160	160
90	120	145	160	160	160	160
96	120	145	160	160	160	160
102	120	145	160	160	160	160
108	120	145	160	160	160	160
114	120	145	160	160	160	160
120	120	145	160	160	160	160
126	120	145	160	160	160	160
132	120	145	160	160	160	160
138	120	145	160	160	160	160
144	120	145	160	160	160	160
150	120	145	160	160	160	160
156	120	145	160	160	160	160
162	120	145	160	160	160	160
168	120	145	160	160	160	160

WIDTH (in.)	HEIGHT 62 (in.)					
	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	160	160	160	160
42	120	145	160	160	160	160
48	120	145	160	160	160	160
54	120	145	160	160	160	160
60	120	145	160	160	160	160
62	120	145	160	160	160	160
66	120	145	160	160	160	160
69	120	145	160	160	160	160
72	120	145	160	160	160	160
78	120	145	160	160	160	160
84	120	145	160	160	160	160
90	120	145	160	160	160	160
96	120	145	160	160	160	160
102	120	145	160	160	160	160
108	120	145	160	160	160	160
114	120	145	160	160	160	160
120	120	145	160	160	160	160
126	120	145	160	160	160	160
132	120	145	160	160	160	160
138	120	145	160	160	160	160
144	120	145	160	160	160	160
150	120	145	160	160	160	160
156	120	145	160	160	160	160
162	120	145	160	160	160	160
168	120	145	160	160	160	160



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Phn. (954) 698-6888

PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
FLORIDA STATE APPROVAL

REMARKS	DATE	DRWN	CHKD
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38

MULLION CAPACITIES ARE EQUAL WITH OR WITHOUT SUNSHADE.
MULLION CAPACITIES ARE EQUAL WITH OR WITHOUT H

SINGLE SPAN MULLION LOADING TABLES (P.S.F.)

HEIGHT 66 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	180	180	180	180
42	120	145	180	180	180	180
48	120	145	180	180	180	180
54	120	145	180	180	180	180
60	120	145	180	180	180	180
62	120	145	180	180	180	180
66	120	145	180	180	180	180
69	120	145	180	180	180	180
72	120	145	180	180	180	180
78	120	145	180	180	180	180
84	120	145	180	180	180	180
90	120	145	180	180	180	180
96	120	145	180	180	180	180
102	120	145	180	180	180	180
108	120	145	180	180	180	180
114	120	145	180	180	180	180
120	120	145	180	180	180	180
126	120	145	180	180	180	180
132	120	145	180	180	180	180
138	120	145	180	180	180	180
144	120	145	180	180	180	180
150	120	145	180	180	180	180

HEIGHT 72 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	180	180	180	180
42	120	145	180	180	180	180
48	120	145	180	180	180	180
54	120	145	180	180	180	180
60	120	145	180	180	180	180
62	120	145	180	180	180	180
66	120	145	180	180	180	180
69	120	145	180	180	180	180
72	120	145	180	180	180	180
78	120	145	180	180	180	180
84	120	145	180	180	180	180
90	120	145	180	180	180	180
96	120	145	180	180	180	180
102	120	145	180	180	180	180
108	120	145	180	180	180	180
114	120	145	180	180	180	180
120	120	145	180	180	180	180
126	120	145	180	180	180	180
132	120	145	180	180	180	180
138	120	145	180	180	180	180

HEIGHT 78 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	180	180	180	180
42	120	145	180	180	180	180
48	120	145	180	180	180	180
54	120	145	180	180	180	180
60	120	145	180	180	180	180
62	120	145	180	180	180	180
66	120	145	180	180	180	180
69	120	145	180	180	180	180
72	120	145	180	180	180	180
78	120	145	180	180	180	180
84	120	145	180	180	180	180
90	120	145	180	180	180	180
96	120	145	180	180	180	180
102	120	145	180	180	180	180
108	120	145	180	180	180	180
114	120	145	180	180	180	180
120	120	145	180	180	180	180
126	120	145	180	180	180	180

HEIGHT 84 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	180	180	180	180
42	120	145	180	180	180	180
48	120	145	180	180	180	180
54	120	145	180	180	180	180
60	120	145	180	180	180	180
62	120	145	180	180	180	180
66	120	145	180	180	180	180
69	120	145	180	180	180	180
72	120	145	180	180	180	180
78	120	145	180	180	180	180
84	120	145	180	180	180	180
90	120	145	180	180	180	180
96	120	145	180	180	180	180
102	120	145	180	180	180	180
108	120	145	180	180	180	180
114	120	145	180	180	180	180
120	120	145	180	180	180	180

HEIGHT 90 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	180	180	180	180
42	120	145	180	180	180	180
48	120	145	180	180	180	180
54	120	145	180	180	180	180
60	120	145	180	180	180	180
62	120	145	180	180	180	180
66	120	145	180	180	180	180
69	120	144	180	180	180	180
72	120	142	180	180	180	180
78	120	138	180	180	180	180
84	120	135	180	180	180	180
90	120	134	180	180	180	180
96	120	134	180	180	180	180
102	120	134	180	180	180	180
108	120	134	180	180	180	180

HEIGHT 96 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	180	180	180	180
42	120	145	180	180	180	180
48	120	145	180	180	180	180
54	120	145	180	180	180	180
60	120	136	180	180	180	180
62	120	133	180	180	180	180
66	120	127	180	180	180	180
69	120	124	180	180	180	180
72	120	121	180	180	180	180
78	120	120	180	180	180	180
84	120	120	180	180	180	180
90	120	120	180	180	180	180
96	120	120	180	180	180	180
102	120	120	180	180	180	180

NON REINFORCED MULLION

TYPE "A" TYPE "B" TYPE "C" TYPE "C1"

MULLION	Ix (in.^4)	Sx (in.^3)
CORNER MULL.	21.607	7.3494
ALUM. REINF.	55.250	10.289
STEEL REINF.	-	-

ALUMINUM REINFORCED MULLION

TYPE "D" TYPE "E" TYPE "F" TYPE "F1"

MULLION	Ix (in.^4)	Sx (in.^3)
CORNER MULL.	21.607	7.3494
ALUM. REINF.	6.7038	2.5949
STEEL REINF.	-	-

STEEL REINFORCED MULLION

TYPE "G" TYPE "H" TYPE "I" TYPE "I1"

MULLION	Ix (in.^4)	Sx (in.^3)
CORNER MULL.	21.607	7.3494
ALUM. REINF.	-	-
STEEL REINF.	10.900	4.2614

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MULLION CAPACITIES ARE EQUAL WITH OR WITHOUT HORIZONTALS.

LINEAR INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

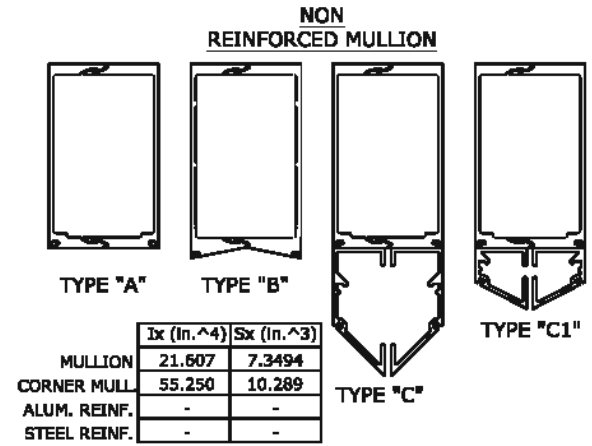
MULLION TRIBUTARY WIDTH
 $W = \frac{W1}{2} + \frac{W2}{2}$

SINGLE SPAN MULLION LOADING TABLES (P.S.F.)

HEIGHT 102 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	160	160	160	160
42	120	145	160	160	160	160
48	120	141	160	160	160	160
54	120	128	160	160	160	160
60	120	120	160	160	160	160
62	120	120	160	160	160	160
66	120	120	160	160	160	160
69	120	120	160	160	160	160
72	120	120	160	160	160	160
78	120	120	160	160	160	160
84	120	120	160	160	160	160
90	120	120	160	160	160	160
96	120	120	160	160	160	160

HEIGHT 108 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	145	160	160	160	160
42	120	140	160	160	160	160
48	120	125	160	160	160	160
54	120	120	160	160	160	160
60	120	120	160	160	160	160
62	120	120	160	160	160	160
66	120	120	160	160	160	160
69	120	120	160	160	160	160
72	120	120	160	160	160	160
78	120	120	160	160	160	160
84	119	119	158	158	158	158
90	116	116	154	154	154	154

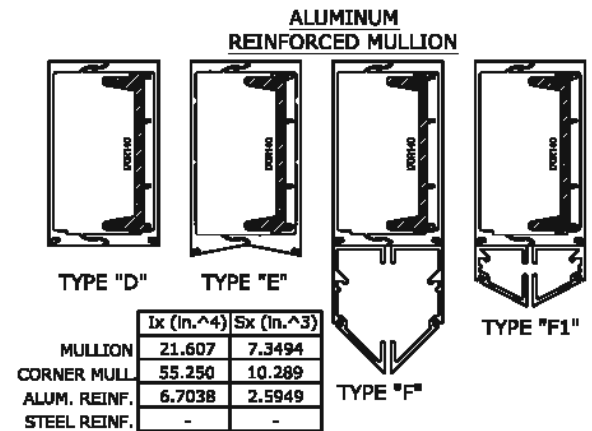
HEIGHT 114 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	144	160	160	160	160
42	120	125	160	160	160	160
48	120	120	160	160	160	160
54	120	120	160	160	160	160
60	120	120	160	160	160	160
62	120	120	160	160	160	160
66	120	120	160	160	160	160
69	118	118	160	160	160	160
72	115	115	156	156	156	156
78	109	109	148	148	150	150
84	104	104	141	141	145	145



HEIGHT 120 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	130	160	160	160	160
42	120	120	160	160	160	160
48	120	120	160	160	160	160
54	120	120	160	160	160	160
60	118	118	160	160	160	160
62	115	115	155	155	159	159
66	109	109	148	148	152	152
69	106	106	143	143	148	148
72	102	102	138	138	145	145
78	97	97	131	131	139	139
84	92	92	125	125	134	134

HEIGHT 126 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	160	160	160	160
42	120	120	160	160	160	160
48	120	120	160	160	160	160
54	116	116	157	157	160	160
60	108	108	143	143	152	152
62	103	103	140	140	149	149
66	98	98	133	133	143	143
69	95	95	128	128	139	139
72	92	92	124	124	135	135
78	86	86	117	117	129	129

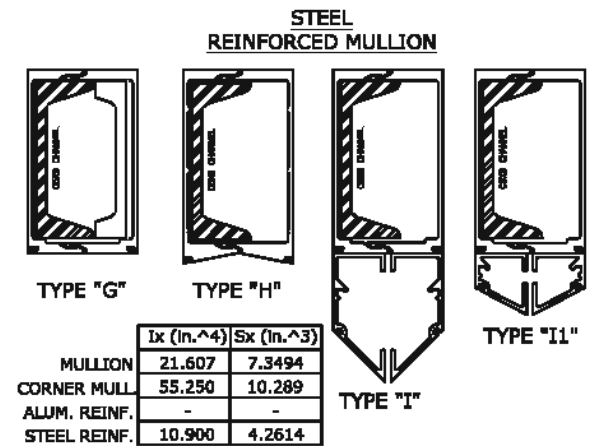
HEIGHT 132 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	160	160	160	160
42	120	120	160	160	160	160
48	117	117	158	158	160	160
54	105	105	142	142	154	154
60	96	96	130	130	143	143
62	93	93	126	126	140	140
66	88	88	120	120	134	134
69	85	85	115	115	130	130
72	82	82	112	112	127	127



HEIGHT 138 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	160	160	160	160
42	120	120	160	160	160	160
48	108	108	144	144	160	160
54	96	96	129	129	146	146
60	87	87	118	118	135	135
62	85	85	115	115	132	132
66	80	80	109	109	126	126
69	78	78	105	105	122	122
72	75	75	101	101	119	119

HEIGHT 144 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	160	160	160	160
42	109	109	143	143	160	160
48	98	98	128	128	152	152
54	87	87	114	114	139	139
60	80	80	104	104	128	128
62	77	77	101	101	125	125
66	73	73	96	96	119	119
69	-	-	92	92	116	116

HEIGHT 150 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	-	-	146	146	160	160
42	-	-	126	126	160	160
48	-	-	111	111	145	145
54	-	-	100	100	132	132
60	-	-	91	91	122	122
62	-	-	89	88	119	119
66	-	-	84	84	113	113



HEIGHT 156 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	-	-	130	130	160	160
42	-	-	112	112	154	154
48	-	-	99	99	138	138
54	-	-	89	89	126	126
60	-	-	81	81	116	116
62	-	-	78	78	113	113

HEIGHT 162 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	-	-	115	115	160	160
42	-	-	100	100	148	148
48	-	-	88	88	132	132
54	-	-	79	79	120	120
60	-	-	72	72	110	110
62	-	-	70	70	108	108

HEIGHT 168 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	-	-	103	103	160	160
42	-	-	89	89	142	142
48	-	-	78	78	127	127
54	-	-	70	70	115	115
60	-	-	64	64	106	106

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REMARKS	DATE	DATE	DATE	DATE
ERIC 2020 UPDATE	08/06/20			

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MULLION CAPACITIES ARE EQUAL WITH OR WITHOUT HORIZONTALS.

LINEAR INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

MULLION TRIBUTARY WIDTH

$$W = \frac{W1 + W2}{2}$$

TWIN AND MULTIPLE SPAN MULLION LOADING TABLES (P.S.F.)

HEIGHT 120 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	130	130	160	160	160	160
42	120	120	160	160	160	160
48	120	120	160	160	160	160
54	120	120	160	160	160	160
60	118	120	160	160	160	160
62	115	120	155	155	155	155
66	109	120	148	148	148	148
69	106	120	143	143	143	143
72	102	120	138	138	138	138

HEIGHT 126 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	160	160	160	160
42	120	120	160	160	160	160
48	120	120	160	160	160	160
54	120	120	157	157	157	157
60	120	120	143	143	143	143
62	120	120	140	140	140	140
66	120	120	133	133	133	133
69	120	120	128	128	128	128
72	120	120	124	124	124	124

HEIGHT 132 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	160	160	160	160
42	120	120	160	160	160	160
48	120	120	158	158	158	158
54	120	120	142	142	142	142
60	120	120	130	130	130	130
62	120	120	126	126	126	126
66	120	120	120	120	120	120
69	120	120	120	120	120	120
72	120	120	120	120	120	120

HEIGHT 138 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	160	160	160	160
42	120	120	160	160	160	160
48	120	120	144	144	144	144
54	120	120	129	129	129	129
60	120	120	120	120	120	120
62	120	120	120	120	120	120
66	120	120	120	120	120	120
69	120	120	120	120	120	120
72	120	120	120	120	120	120

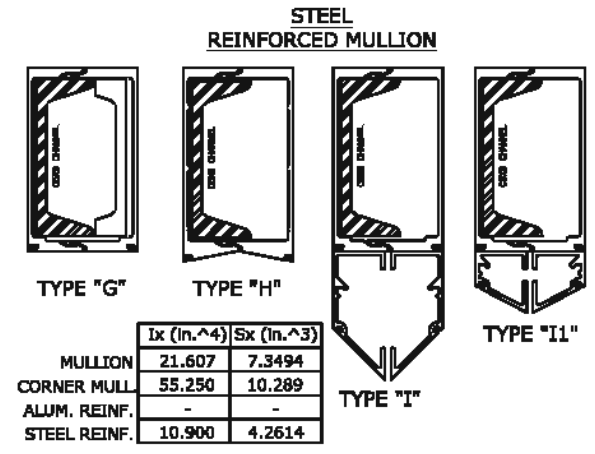
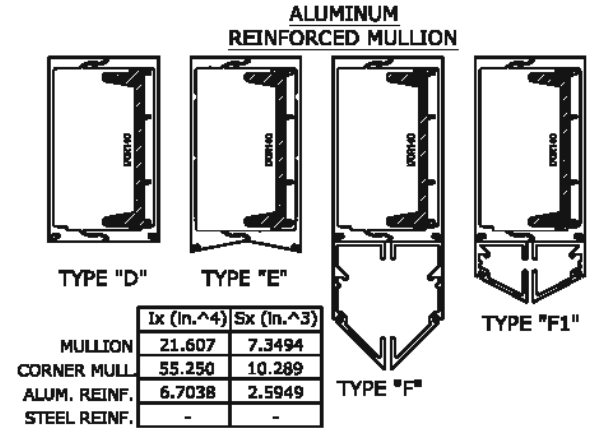
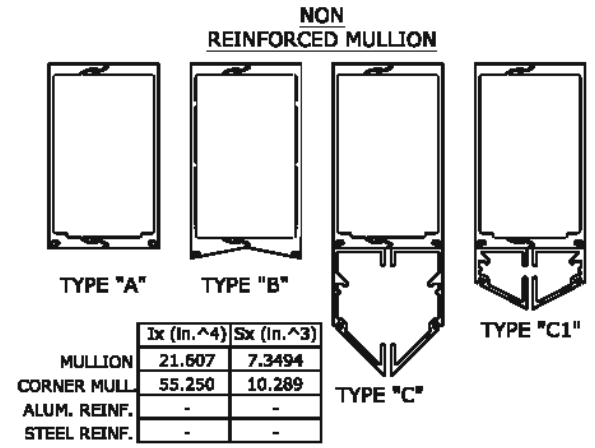
HEIGHT 144 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	160	160	160	160
42	120	120	143	143	143	143
48	120	120	126	126	126	126
54	120	120	120	120	120	120
60	120	120	120	120	120	120
62	120	120	120	120	120	120
66	120	120	120	120	120	120
69	100	100	120	120	120	120
72	-	-	-	-	120*	120*

HEIGHT 150 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	146	146	146	146
42	120	120	126	126	126	126
48	120	120	120	120	120	120
54	120	120	120	120	120	120
60	120	120	120	120	120	120
62	120	120	120	120	120	120
66	114	114	120	120	120	120
69	-	-	-	-	120	120
72	-	-	-	-	120	120

HEIGHT 156 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	130	130	130	130
42	120	120	120	120	120	120
48	120	120	120	120	120	120
54	120	120	120	120	120	120
60	111	111	120	120	120	120
62	-	-	-	-	120	120
66	-	-	-	-	120	120
69	-	-	-	-	120	120
72	-	-	-	-	120	120

HEIGHT 162 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	120	120	120	120
42	120	120	120	120	120	120
48	120	120	120	120	120	120
54	110	110	120	120	120	120
60	99	99	120	120	120	120

HEIGHT 168 (in.)						
WIDTH (in.)	NON-REINFORCED		ALUMINUM REINFORCEMENT		STEEL REINFORCEMENT	
	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
36	120	120	120	120	120	120
42	120	120	120	120	120	120
48	110	110	120	120	120	120
54	98	98	120	120	120	120
60	88	88	117	117	120	120



NOTE:
UNEQUAL SPANS MUST BE DESIGN ON SITE SPECIFIC BASIS.

MULLION CAPACITIES ARE EQUAL WITH OR WITHOUT SUNSHADE.
MULLION CAPACITIES ARE EQUAL WITH OR WITHOUT HORIZONTALS.

LINEAR INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

MULLION TRIBUTARY WIDTH
 $W = \frac{W1 + W2}{2}$



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FLORIDA STATE APPROVAL

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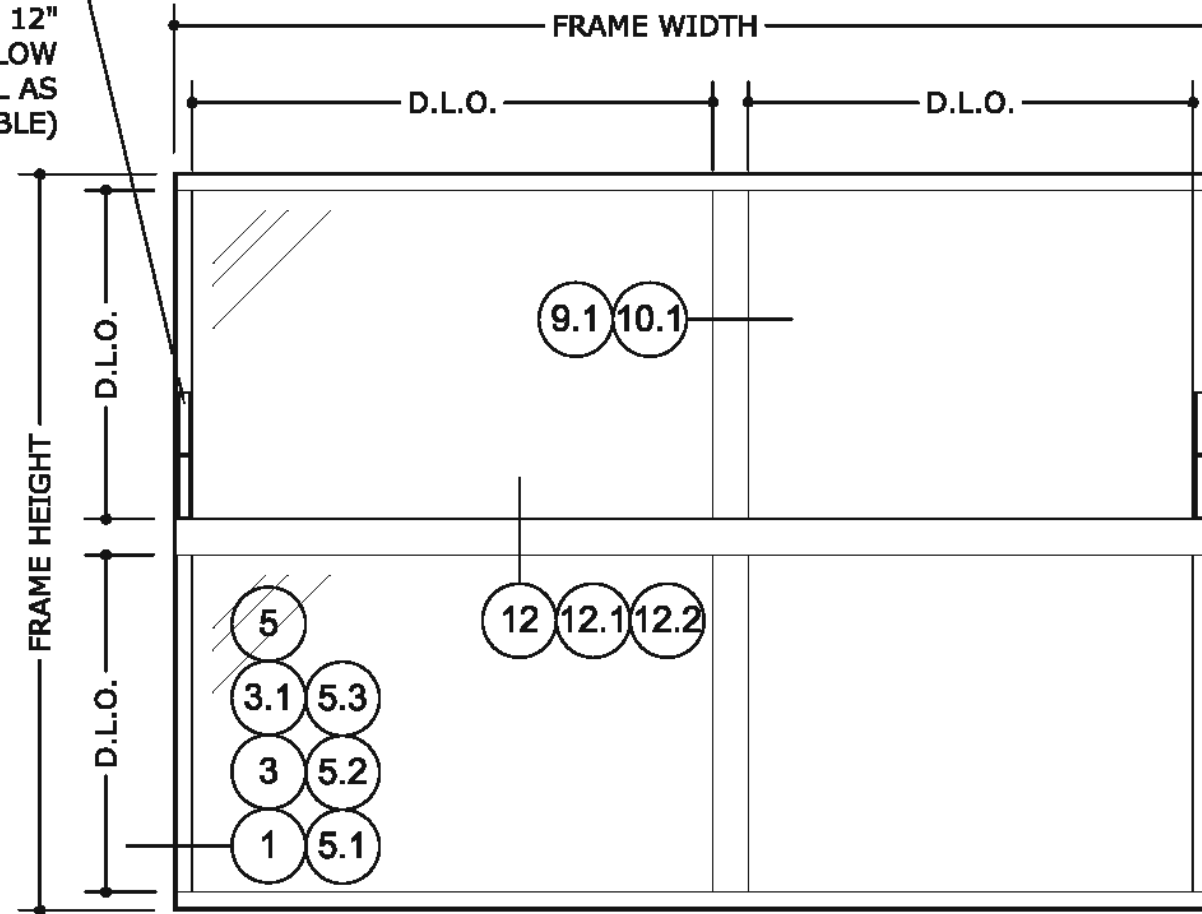
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SIDE LOADED SYSTEM

DEADLOAD BLOCKS.
REFER TO DETAILS 25
&26 (LOCATED 12"
ABOVE OR BELOW
HORIZONTAL AS
APPLICABLE)



TYPICAL SIDE LOADED FRAME

SIDE-LOADED MULLION



TYPE "A"

	Ix (in.^4)	Sx (in.^3)
MULLION	21.607	7.3494
CORNER MULL	55.250	10.289
ALUM. REINF.	-	-
STEEL REINF.	-	-

SIDE LOADED SYSTEMS MAY BE USED GIVEN THE SYSTEM IS DESIGNED AND APPROVED BY A PROFESSIONAL ENGINEER BASED ON SITE SPECIFIC CONDITIONS.

MULLION CAPACITIES ARE EQUAL WITH OR WITHOUT SUNSHADE.
MULLION CAPACITIES ARE EQUAL WITH OR WITHOUT HORIZONTALS.

MULLION TRIBUTARY WIDTH

$$W = \frac{W1}{2} + \frac{W2}{2}$$



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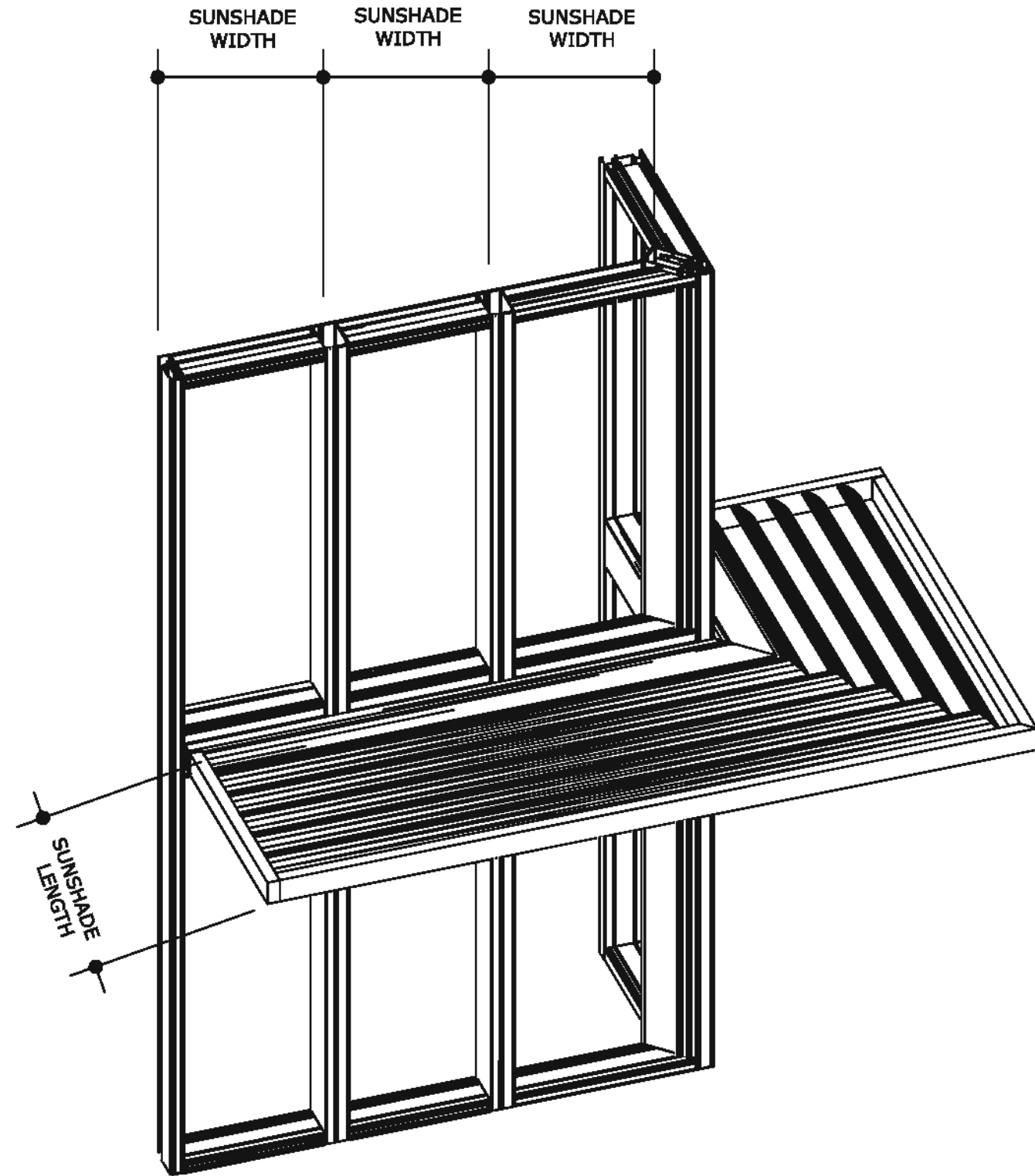
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SUNSHADE LOADING TABLE (P.S.F.)

Sunshade Width (in.)	Sunshade Length (in.)	Max Pressure 0% Porosity P.S.F.	Max Pressure 25% Porosity P.S.F.	Max Pressure 50% Porosity P.S.F.
30	12	120	120	120
	18	120	120	120
	24	120	120	120
	30	120	120	120
	36	83	111	120
	42	61	82	120
	48	47	63	94
	54	37	49	74
36	60	30	40	60
	12	120	120	120
	18	120	120	120
	24	120	120	120
	30	120	120	120
	36	83	111	120
	42	61	82	120
	48	47	63	94
42	54	37	49	74
	60	30	40	60
	12	120	120	120
	18	120	120	120
	24	120	120	120
	30	120	120	120
	36	83	111	120
	42	61	82	120
48	48	47	63	94
	54	37	49	74
	60	30	40	60
	12	120	120	120
	18	120	120	120
	24	120	120	120
	30	120	120	120
	36	83	111	120
54	42	61	82	120
	48	47	63	94
	54	37	49	74
	60	30	40	60
	12	120	120	120
	18	120	120	120
	24	120	120	120
	30	120	120	120
60	36	83	111	120
	42	61	82	120
	48	47	63	94
	54	37	49	74
	60	30	40	60
	12	120	120	120
	18	120	120	120
	24	120	120	120



NOTE:
 CANTILEVERED CONDITION IS ACCEPTABLE IN BOTH HEAD AND SILL LOCATIONS. IF THEY OCCUR SIMULTANEOUSLY, SITE-SPECIFIC ENGINEERING IS REQUIRED AND MUST BE APPROVED BY A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.

FRANK BENNARDO, P.E.
 PE# 0046549 CA 9885



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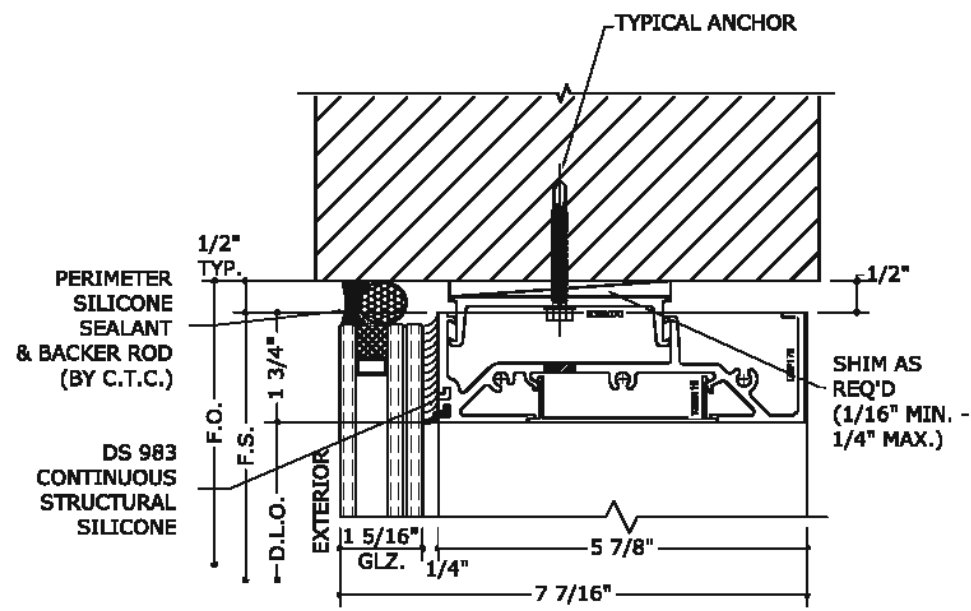
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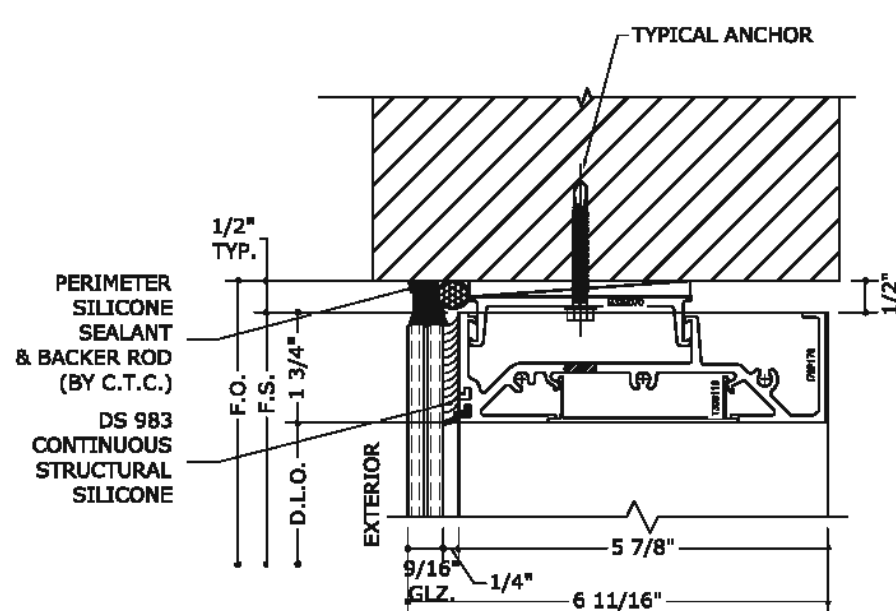
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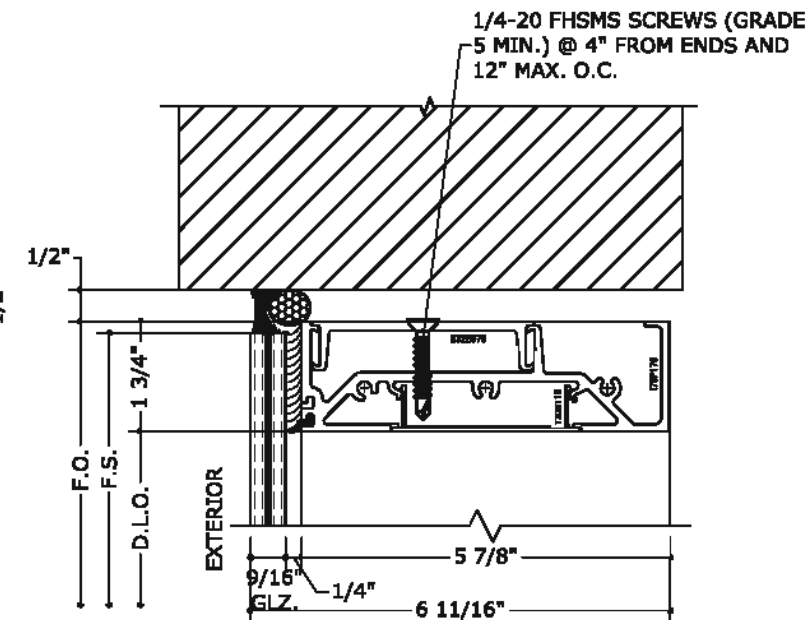
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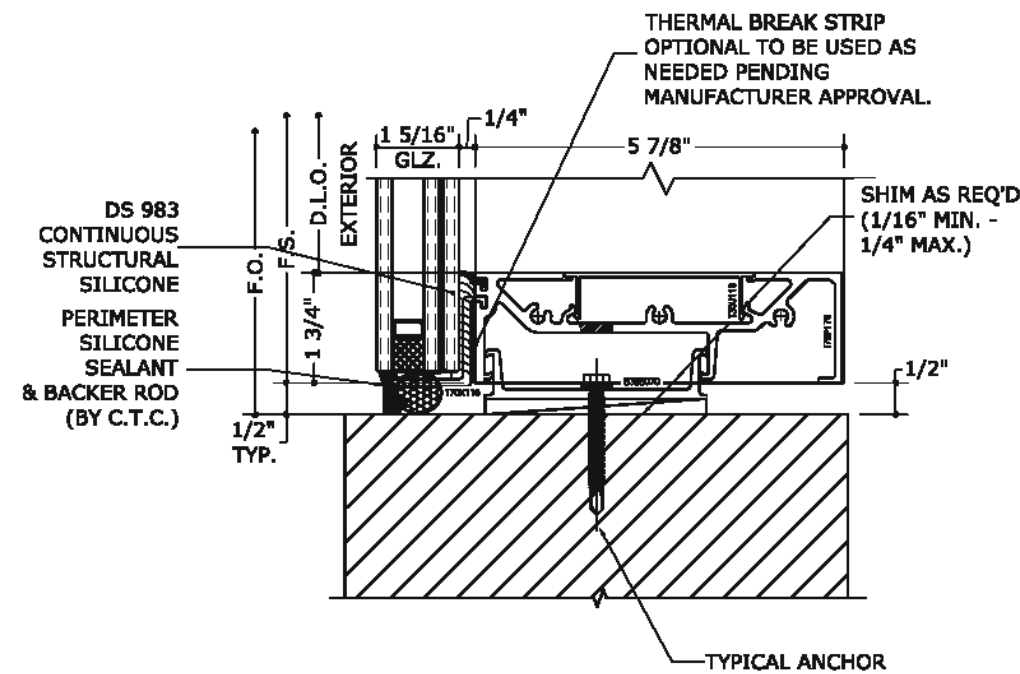
1 HEAD DETAIL



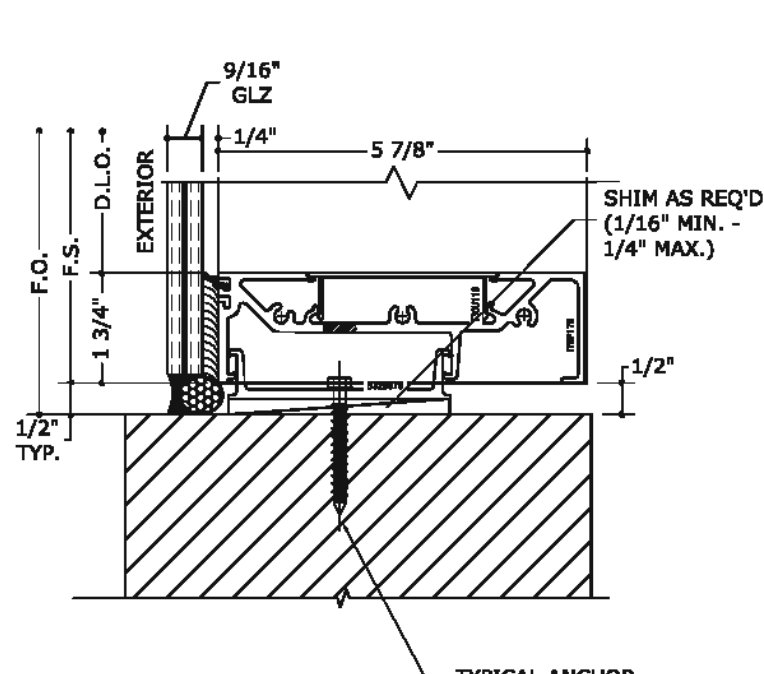
3 HEAD DETAIL



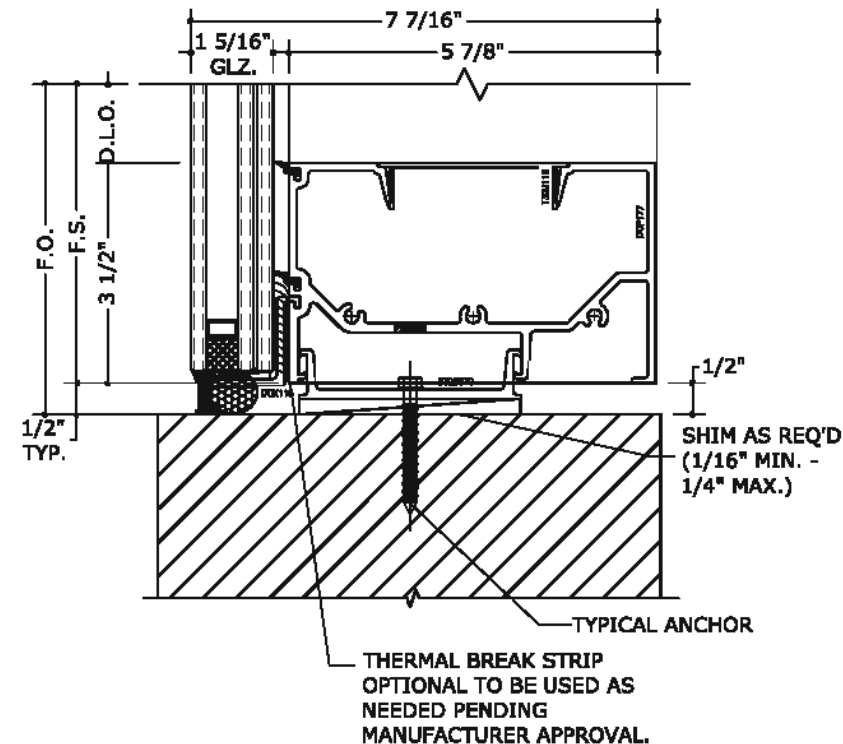
3.1 HEAD DETAIL (CANTILEVER)



2 SILL DETAIL



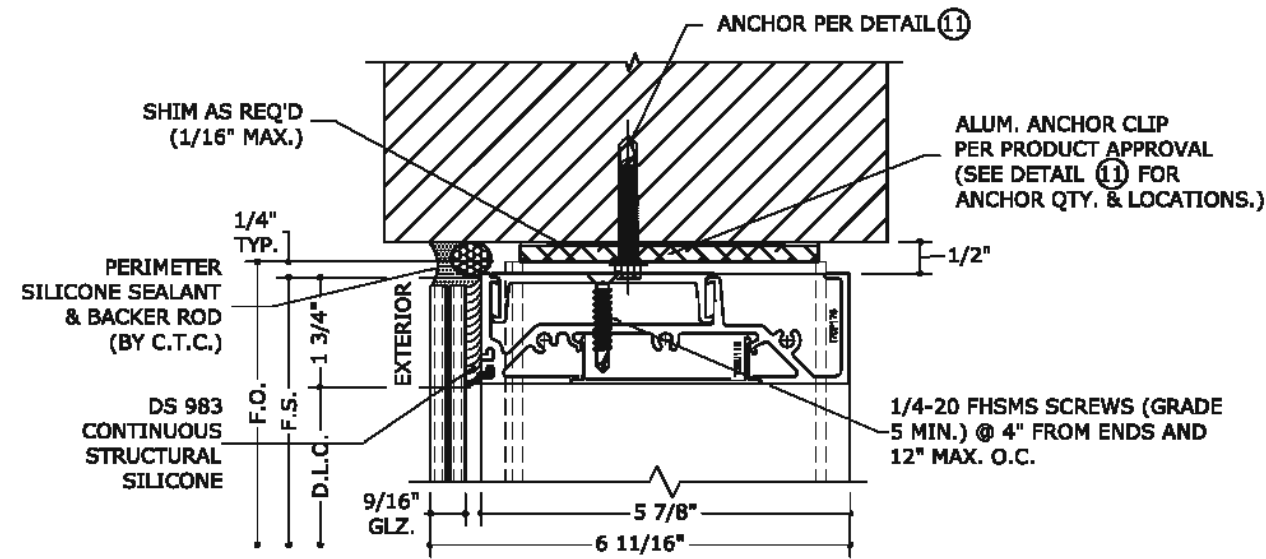
4 SILL DETAIL



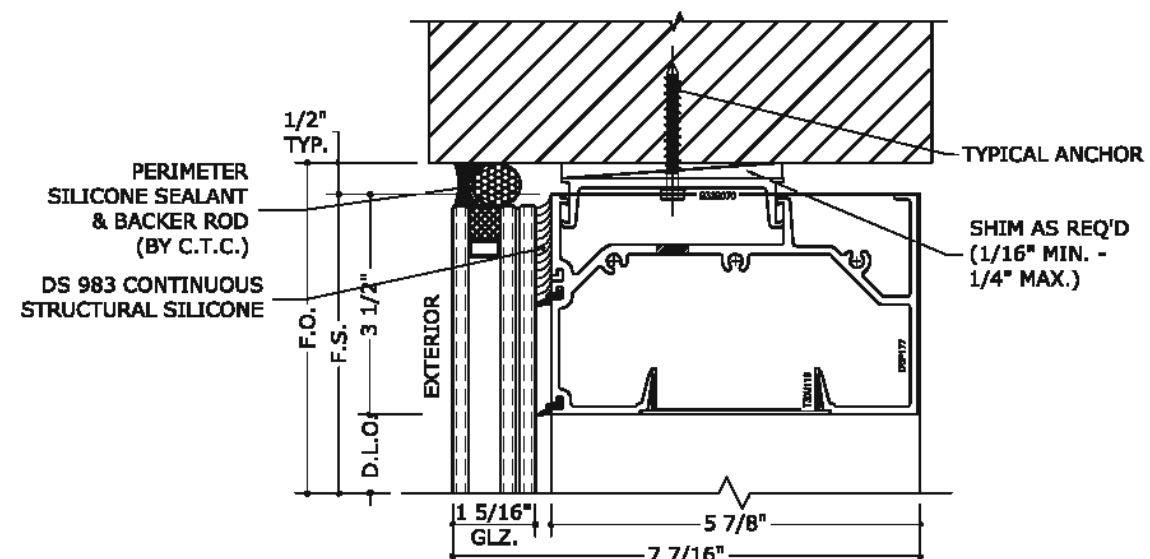
4.1 SILL DETAIL (ALTERNATE)

NOTE:

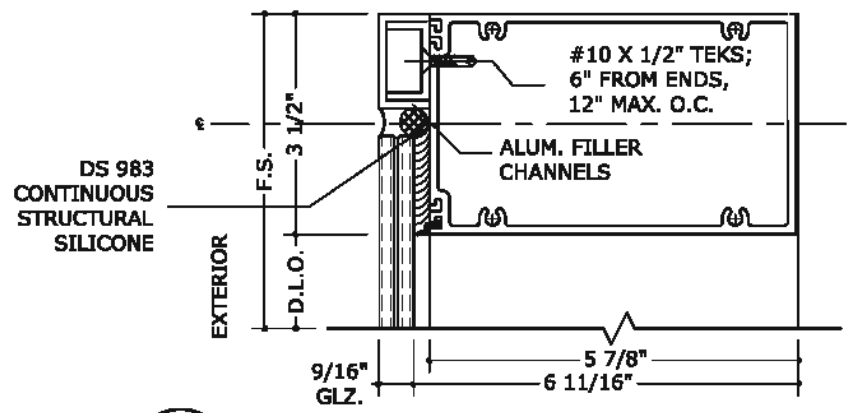
- SHIM SIZES GREATER THAT THE ONE SHOWN IN THE DETAILS ARE PERMITTED UNDER SITE SPECIFIC CONDITIONS.
- MODIFICATIONS TO THE ANCHORING WILL BE REQUIRED FOR THESE CONDITIONS AND SHALL BE DONE BY A PROFESSIONAL ENGINEER.
- SHIMS EXCEEDING 1/4" THICKNESS MAY BE USED GIVEN CLIP AND BALANCE ANCHORING IS DESIGNED PER SITE SPECIFIC PARAMETER. ANCHOR / ATTACHMENT DESIGN MUST BE APPROVED BY A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.



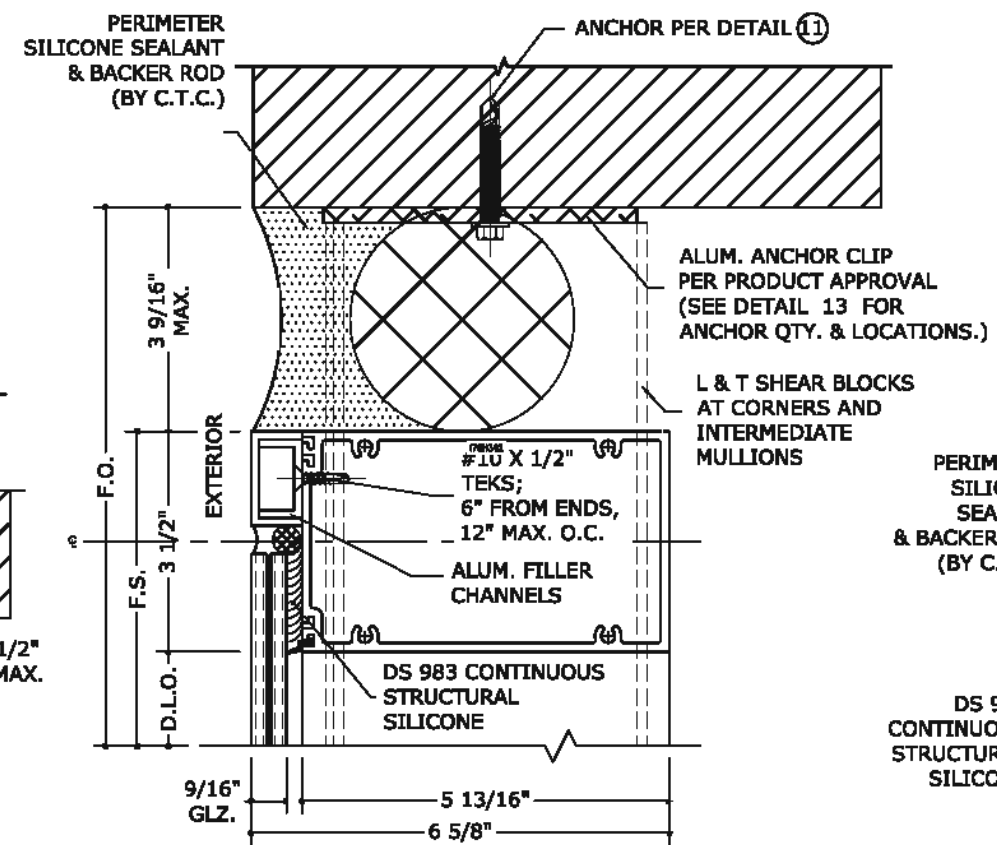
5 HEAD DETAIL W/ T-ANCHOR



5.1 HEAD DETAIL (ALTERNATE)

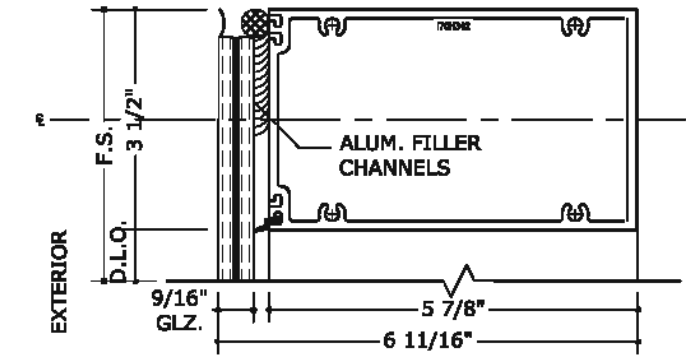


5.2 HEAD DETAIL (ALTERNATE)

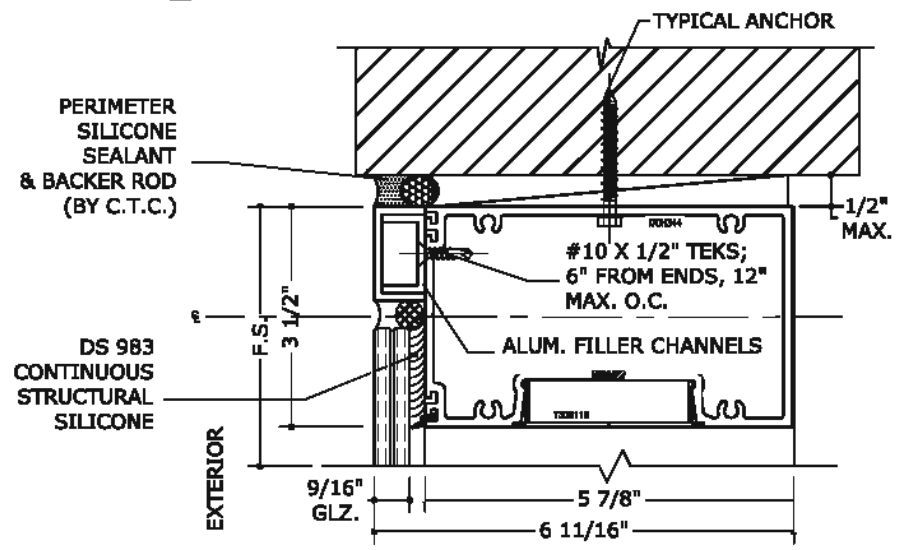


5.4 HEAD DETAIL W/ T-ANCHOR (ALTERNATE)

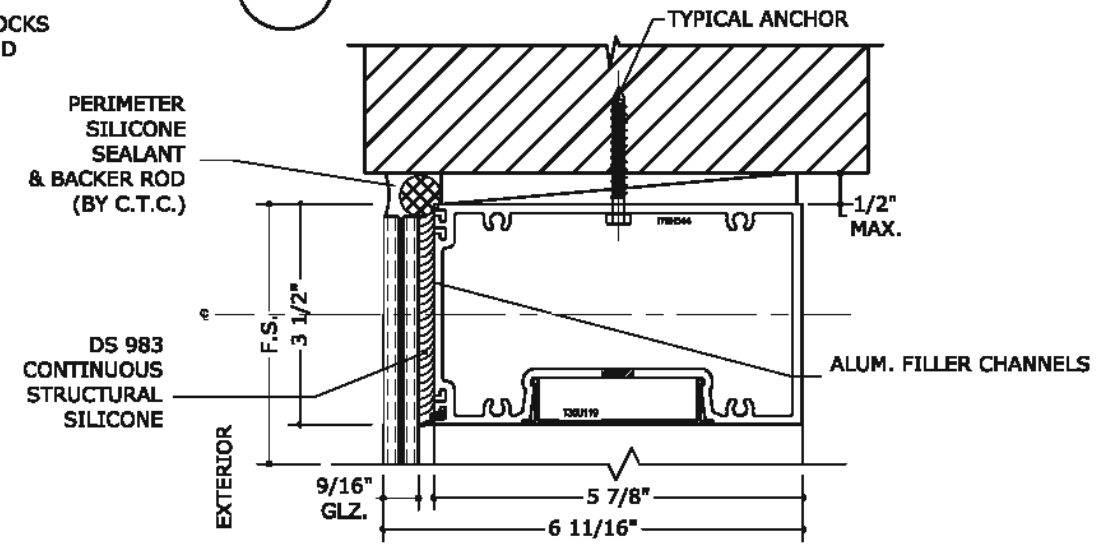
NOTE:
 • HEADER EXTRUSION IN DETAIL 5 MAY BE USED IN PLACED OF THE EXTRUSION SHOWN ABOVE



5.5 HEAD DETAIL (ALTERNATE)



5.3 HEAD DETAIL (ALTERNATE)



5.6 HEAD DETAIL (ALTERNATE)

NOTE:
 • SHIM SIZES GREATER THAT THE ONE SHOWN IN THE DETAILS ARE PERMITTED UNDER SITE SPECIFIC CONDITIONS.
 • MODIFICATIONS TO THE ANCHORING WILL BE REQUIRED FOR THESE CONDITIONS AND SHALL BE DONE BY A PROFESSIONAL ENGINEER.
 • SHIMS EXCEEDING 1/4\"/>



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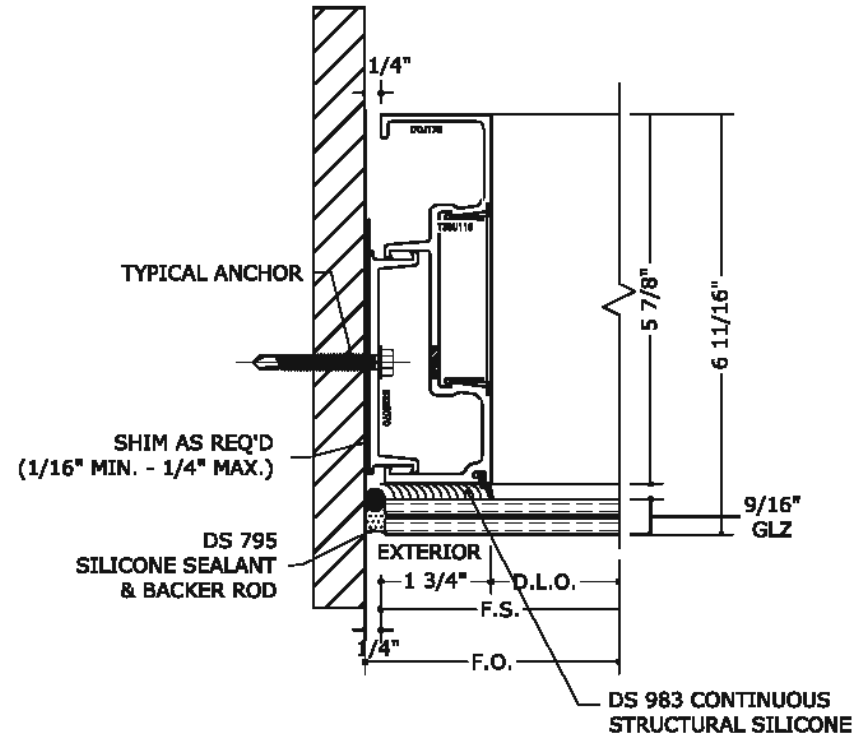
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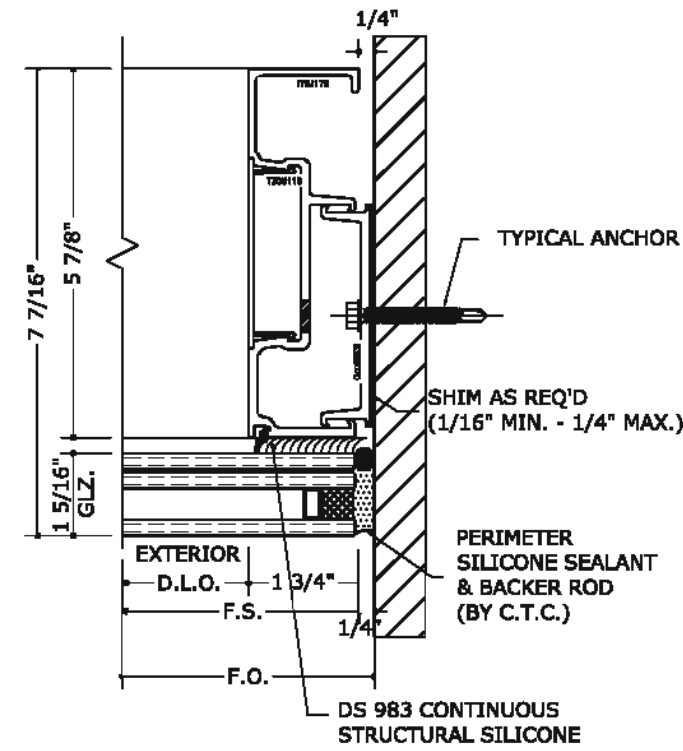


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6 LEFT JAMB DETAIL



7 RIGHT JAMB DETAIL

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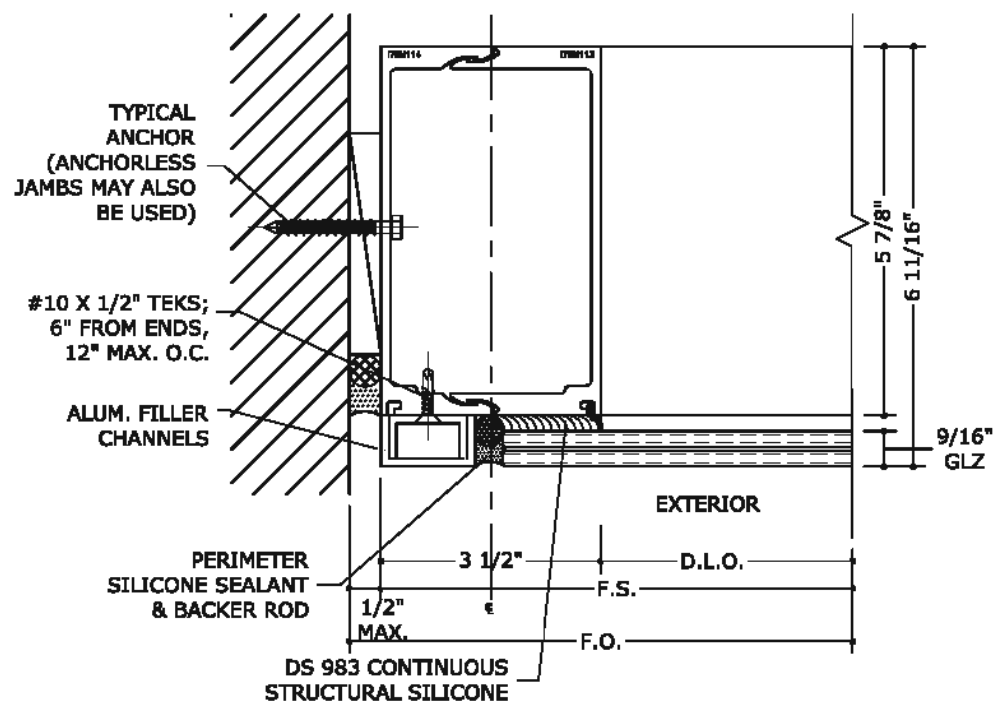
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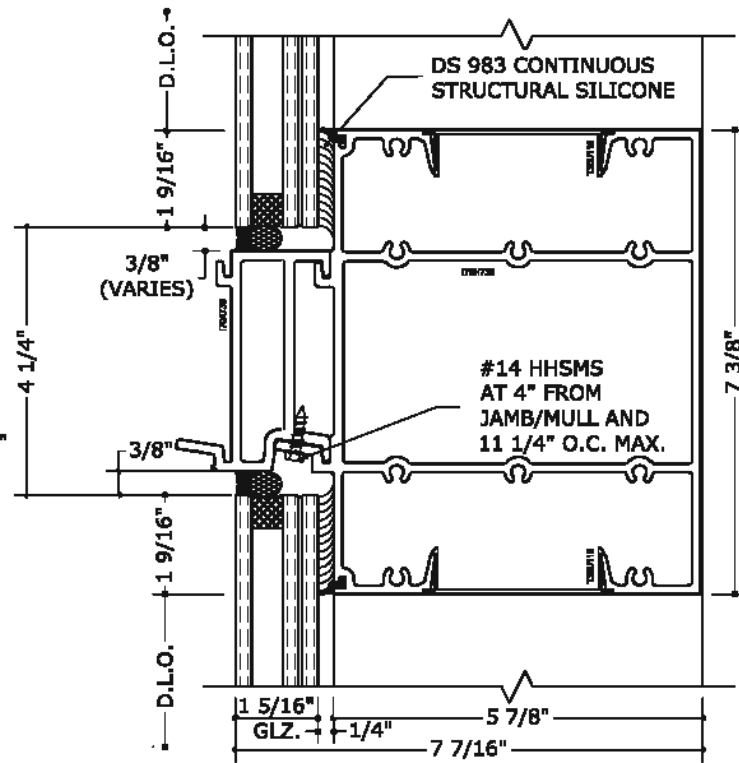
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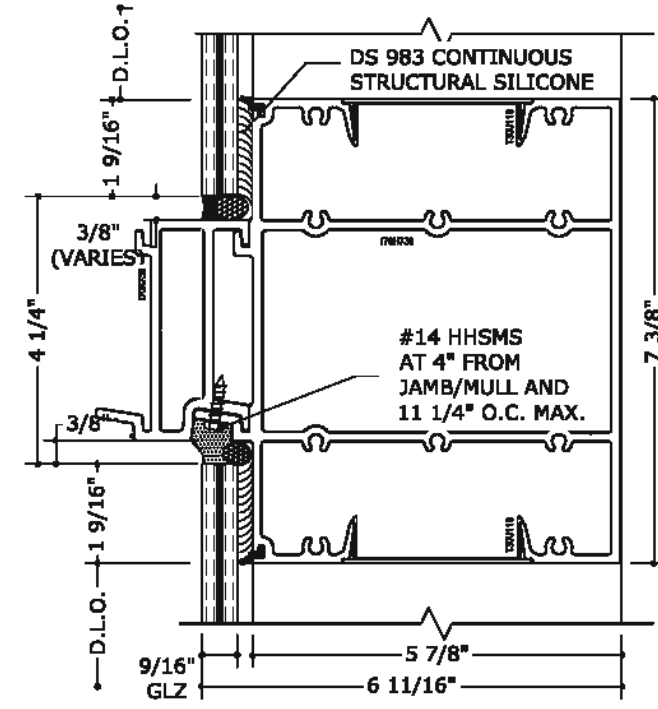


8 LEFT JAMB DETAIL (ALTERNATE)

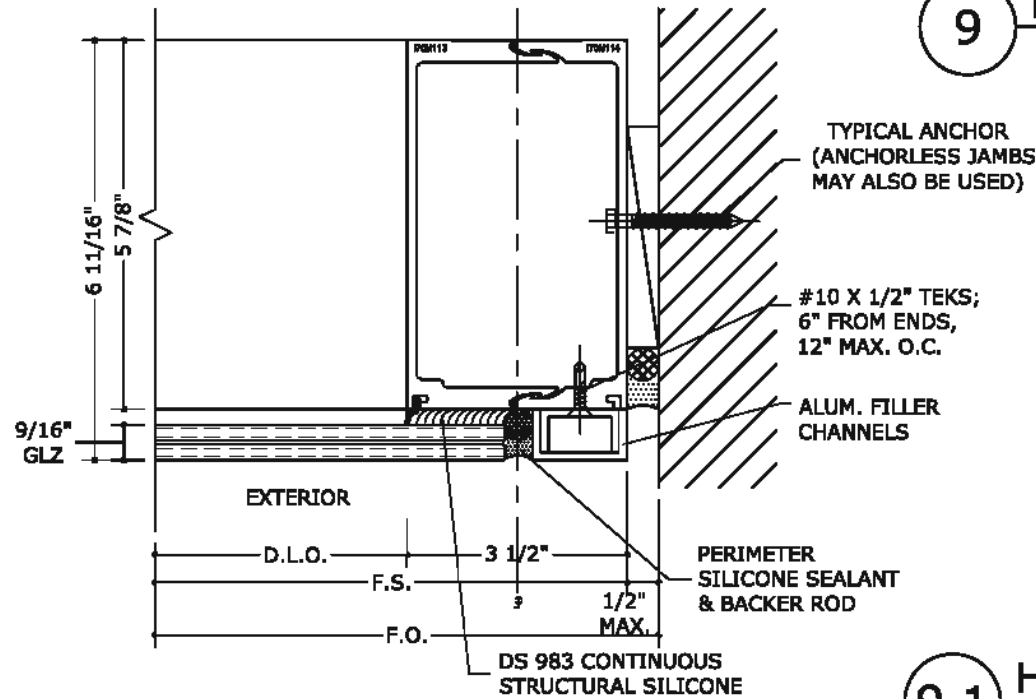
ALTERNATE JAMB MAY ALSO BE USED WITHOUT ANCHORS



9 HORIZONTAL INTERMEDIATE DETAIL

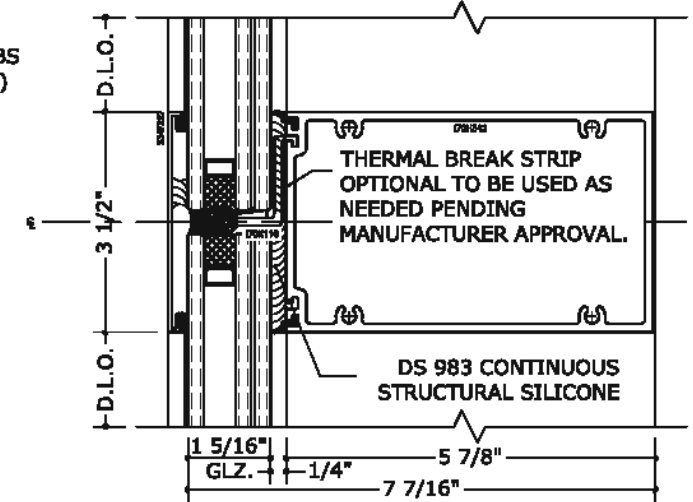


10 HORIZONTAL INTERMEDIATE DETAIL

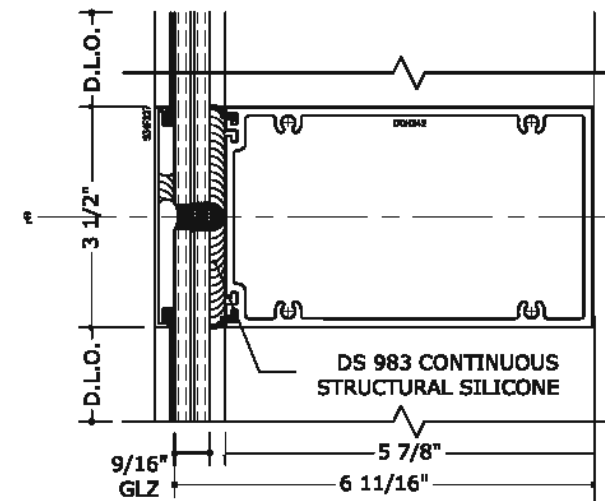


8.1 RIGHT JAMB DETAIL (ALTERNATE)

ALTERNATE JAMB MAY ALSO BE USED WITHOUT ANCHORS



9.1 HORIZONTAL INTERMEDIATE DETAIL



10.1 HORIZONTAL INTERMEDIATE DETAIL

ANCHORLESS ALTERNATE JAMB NOTES:

- 1) ANY REINFORCEMENT THAT IS USED AT THE INTERMEDIATE VERTICAL MULLIONS SHALL ALSO BE USED AT THE ALTERNATE JAMBS.
- 2) WHEN ANCHORLESS ALTERNATE JAMBS CONDITIONS WILL BE UTILIZED, THE GAP BETWEEN THE ALTERNATE JAMB AND SUBSTRATE SHALL BE REVIEWED AND VERIFIED BY SEALANT MANUFACTURER TO ENSURE DESIGN INTENTIONS FOR SEALANT CAN BE ACHIEVED
- 3) WHEN ANCHORLESS ALTERNATE JAMBS CONDITIONS WILL BE UTILIZED, THE ANCHORING AT JAMB ENDS MUST BE DESIGNED TO SITE SPECIFIC CONDITIONS

NOTE:

- SHIM SIZES GREATER THAT THE ONE SHOWN IN THE DETAILS ARE PERMITTED UNDER SITE SPECIFIC CONDITIONS.
- MODIFICATIONS TO THE ANCHORING WILL BE REQUIRED FOR THESE CONDITIONS AND SHALL BE DONE BY A PROFESSIONAL ENGINEER.
- SHIMS EXCEEDING 1/4" THICKNESS MAY BE USED GIVEN CLIP AND BALANCE ANCHORING IS DESIGNED PER SITE SPECIFIC PARAMETER. ANCHOR / ATTACHMENT DESIGN MUST BE APPROVED BY A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.



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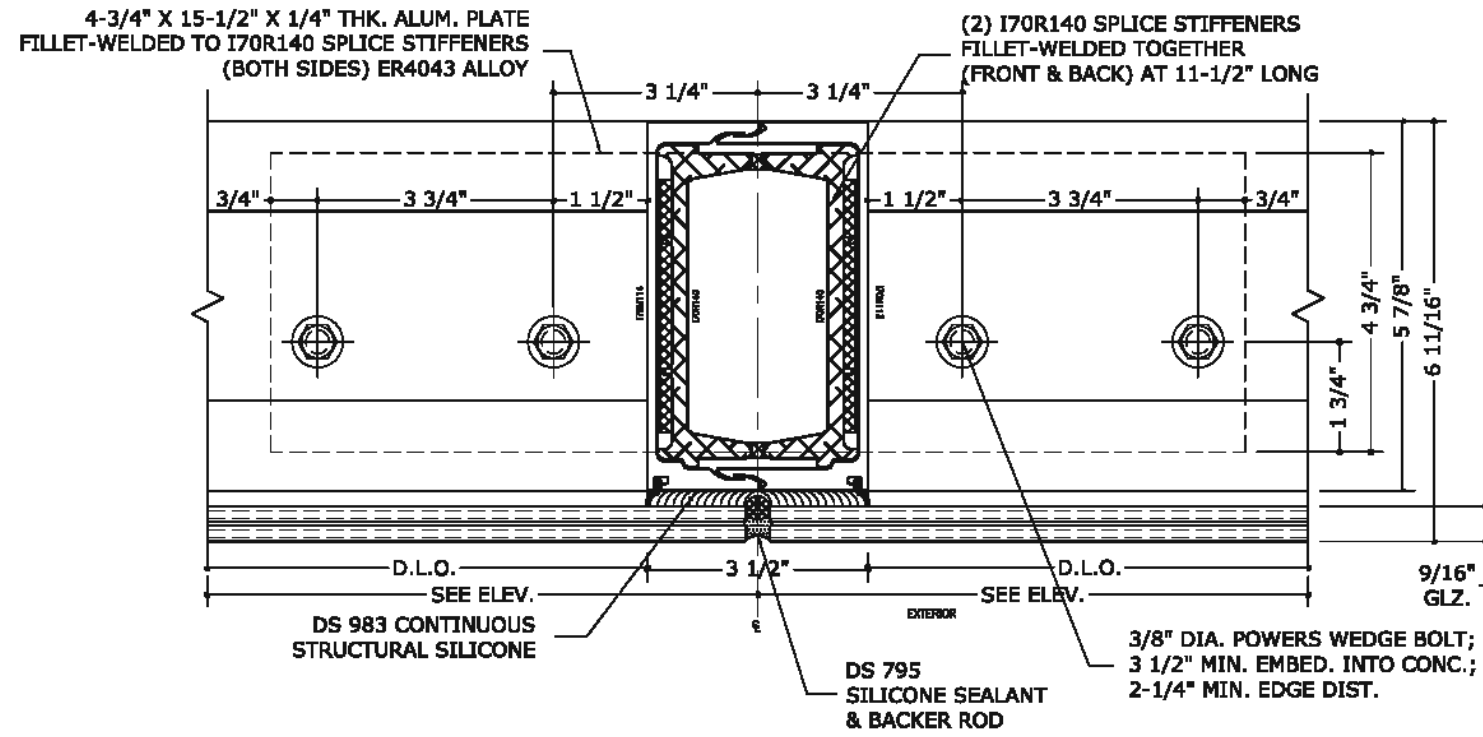
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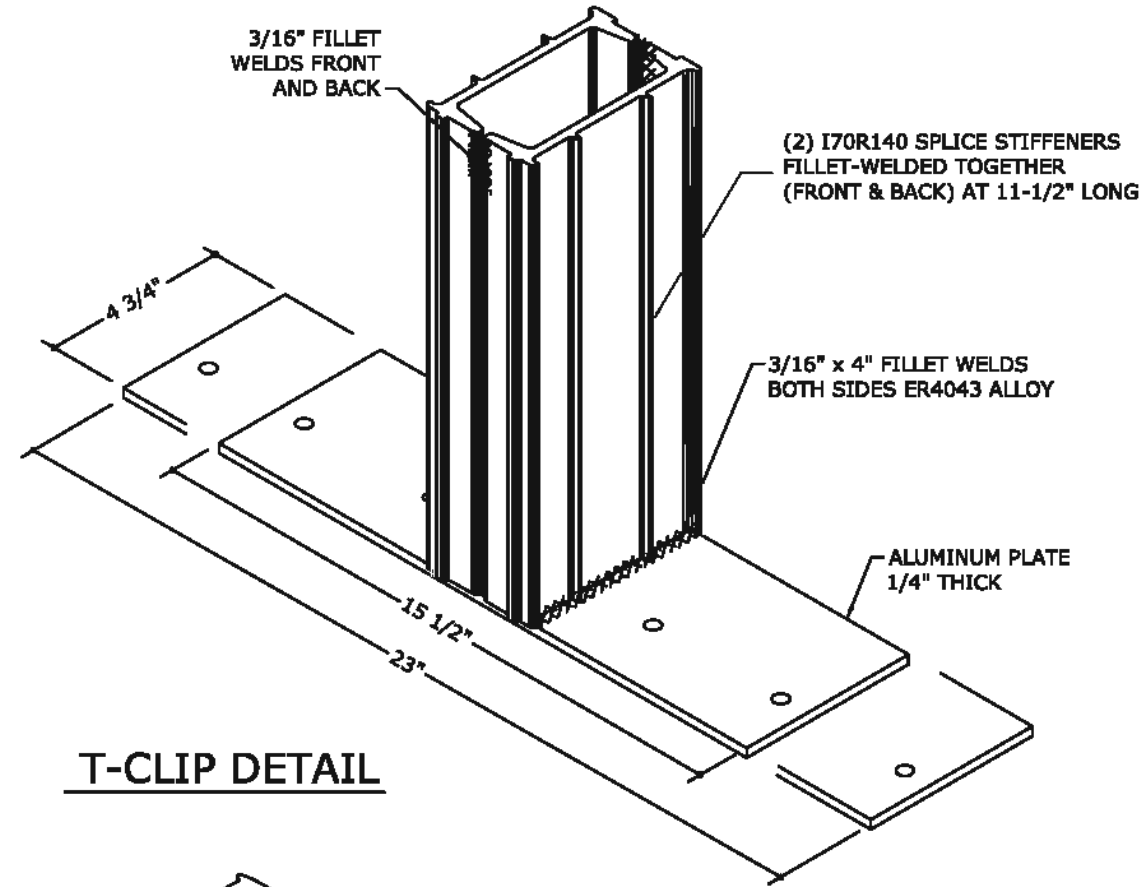
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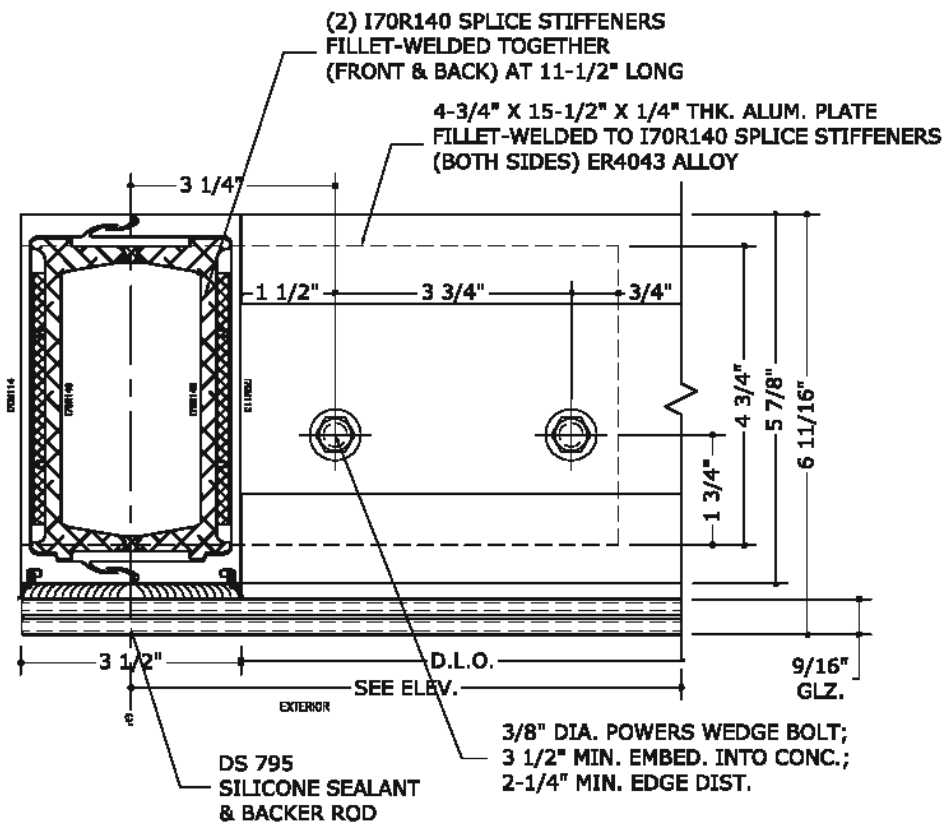
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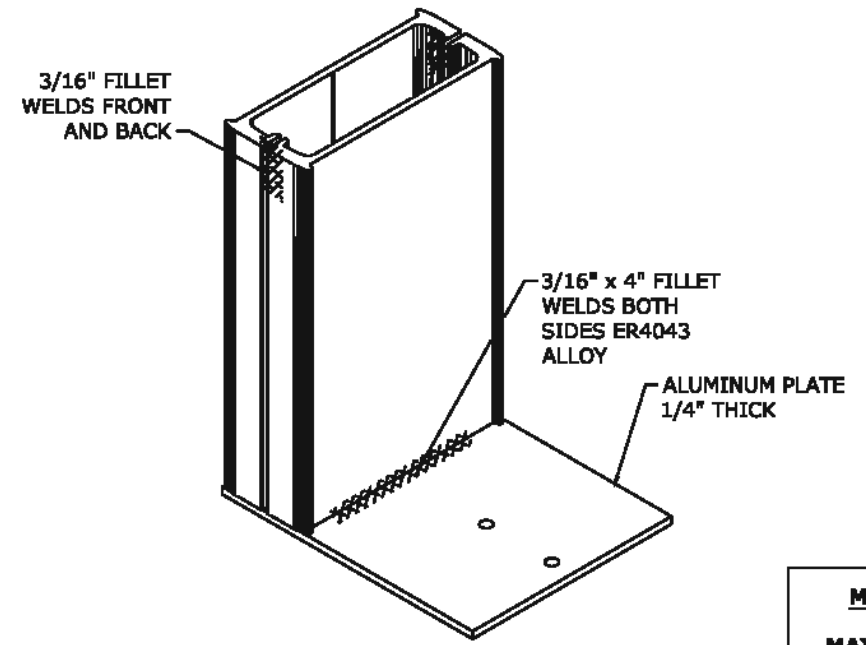
11 T-CLIP DETAIL



T-CLIP DETAIL



11.1 L-CLIP DETAIL



L-CLIP DETAIL

MAX T-CLIP LOADING CAPACITY:
MAX WINDLOAD CAPACITY = 743 lbs.

IF GREATER CAPACITY IS NEEDED, CLIP ANCHOR CAPACITY TO BE DESIGNED ON A SITE SPECIFIC BASIS.

ALTERNATE ANCHORS MAY BE USED AND SHALL BE DESIGNED IN ACCORDANCE WITH SITE SPECIFIC SUBSTRATE CONDITIONS, AND APPROVED BY A PROFESSIONAL ENGINEER.



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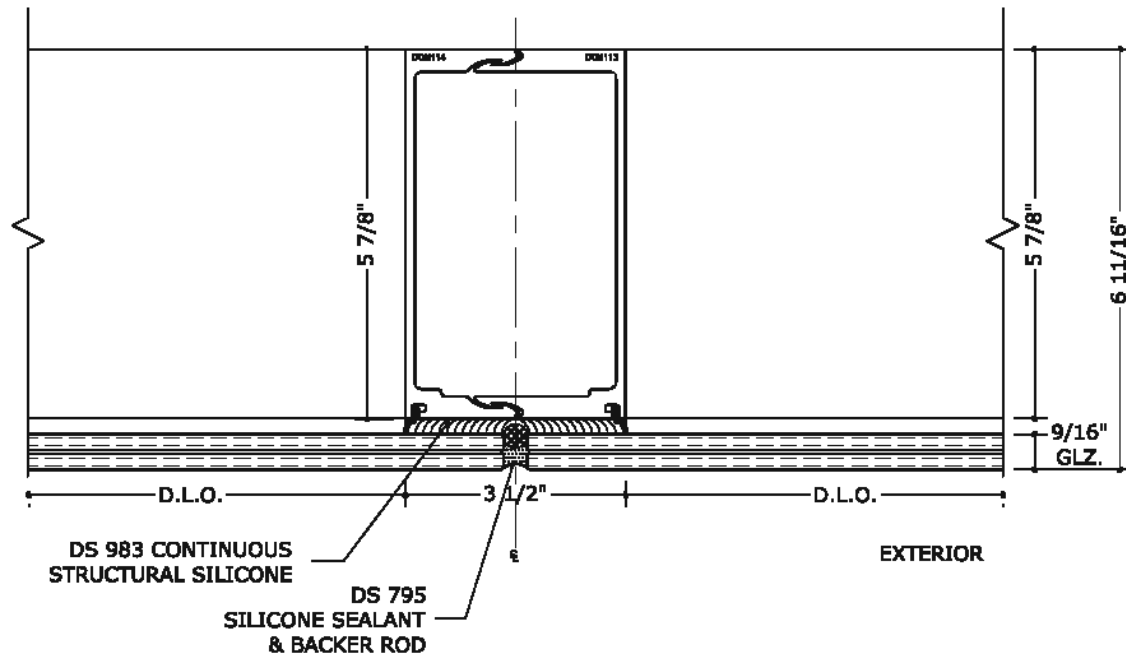
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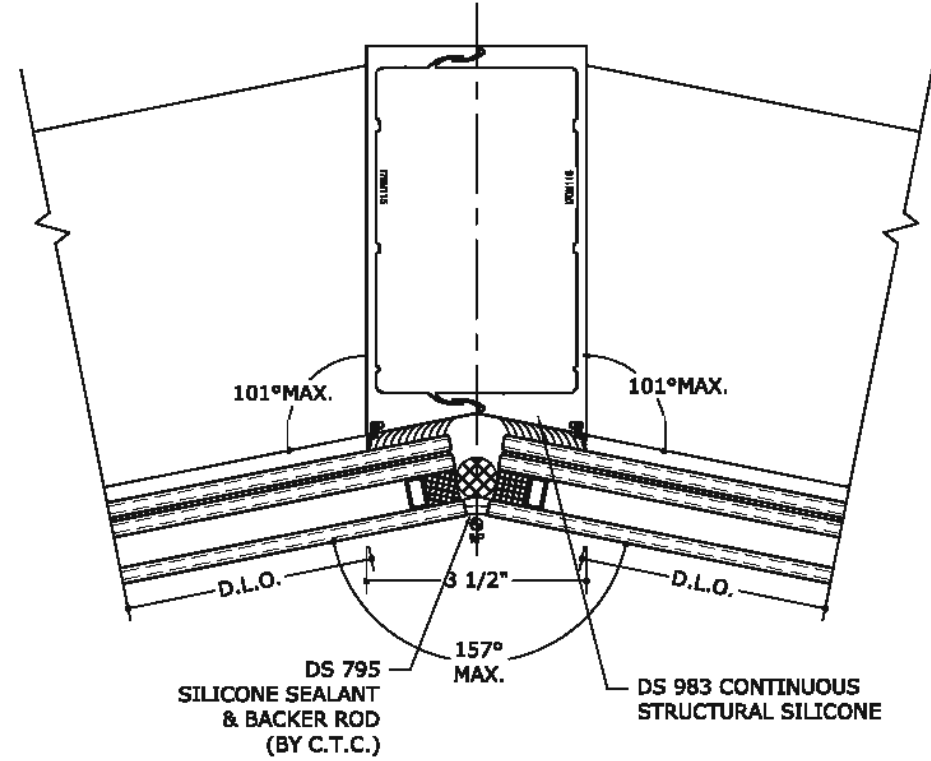
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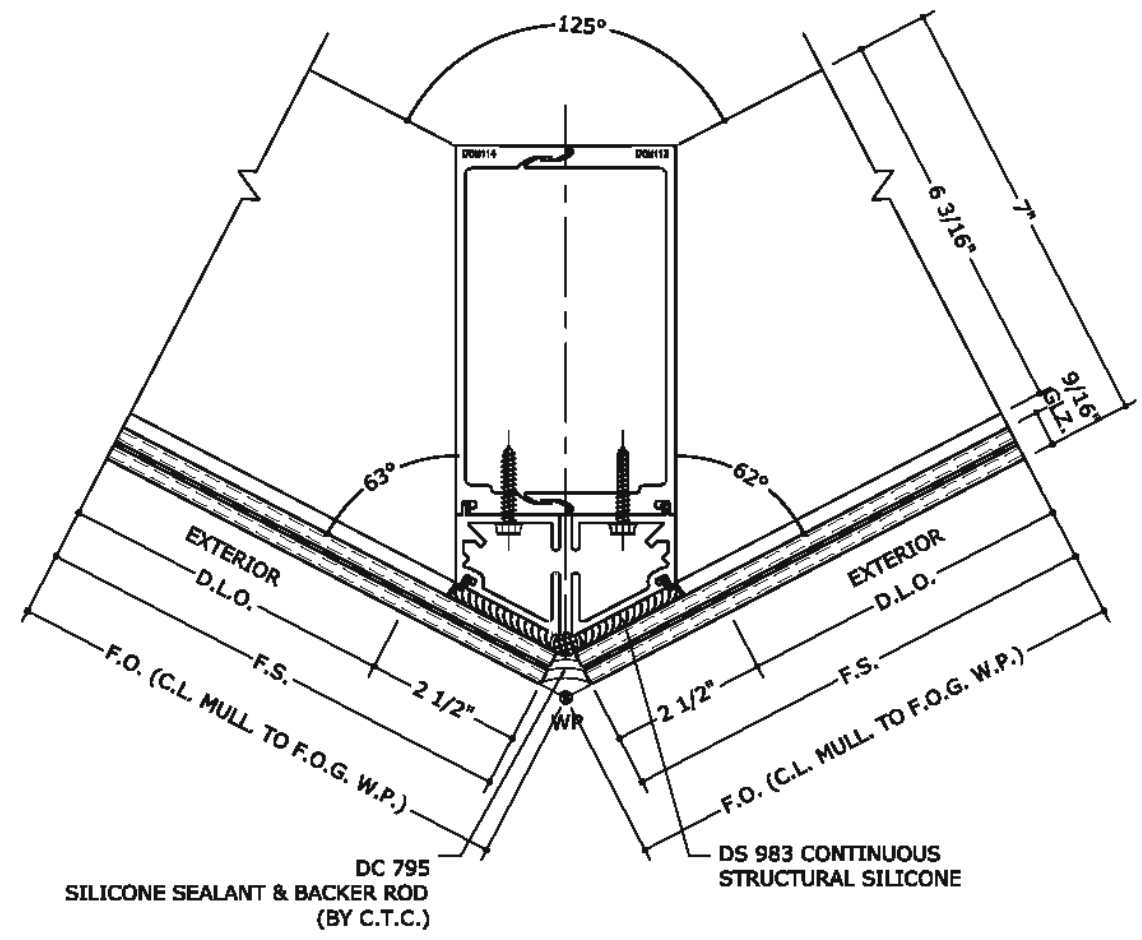
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12 VERTICAL INTERMEDIATE DETAIL
 REINFORCEMENT TO BE INCLUDED AS NEEDED
 BASED UPON SITE SPECIFIC PRESSURES



12.1 VERTICAL INTERMEDIATE DETAIL
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12.2 VERTICAL INTERMEDIATE DETAIL



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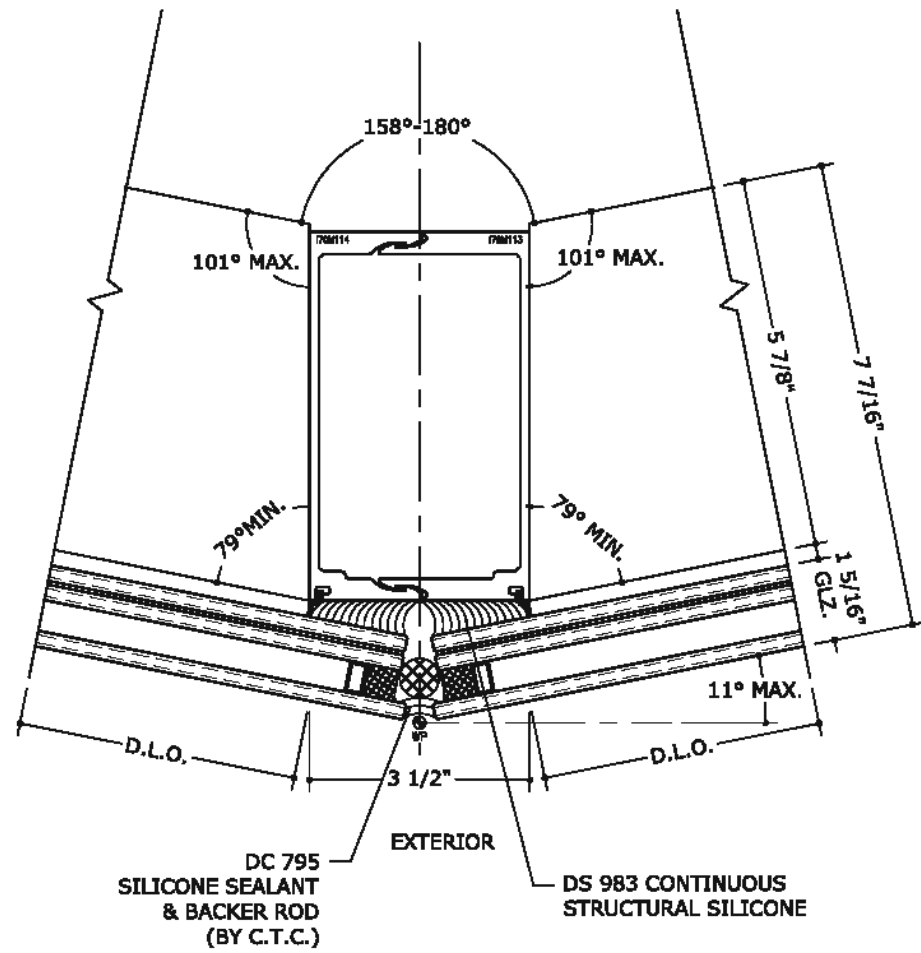
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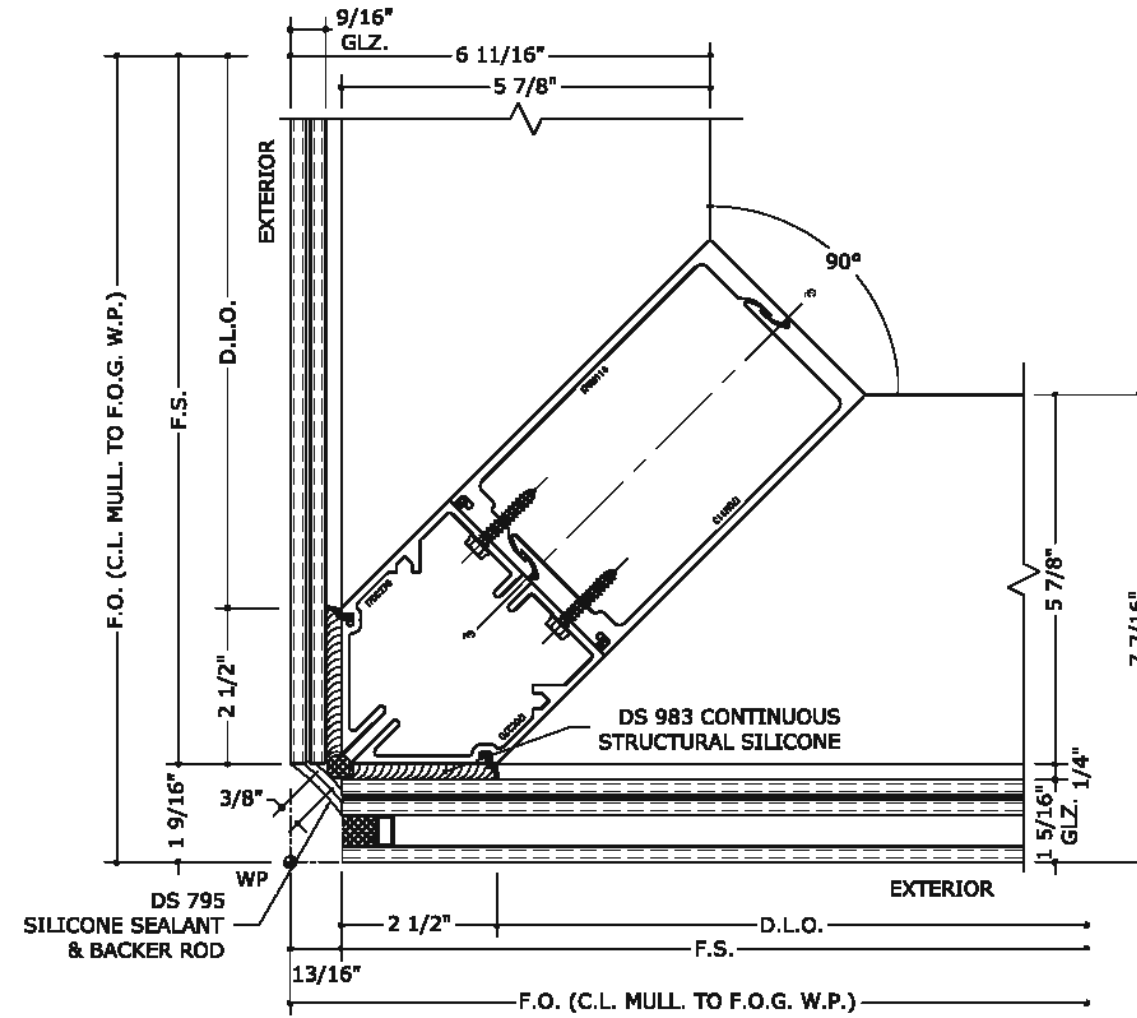
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12.2 VERTICAL INTERMEDIATE DETAIL
 REINFORCEMENT TO BE INCLUDED AS NEEDED
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13 90° O.S. CORNER DETAIL
 REINFORCEMENT TO BE INCLUDED AS NEEDED
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NOTE:
 REFER TO DETAILS 23 & 24 FOR MID
 ANCHOR ATTACHMENT AT CORNER
 CONDITION.



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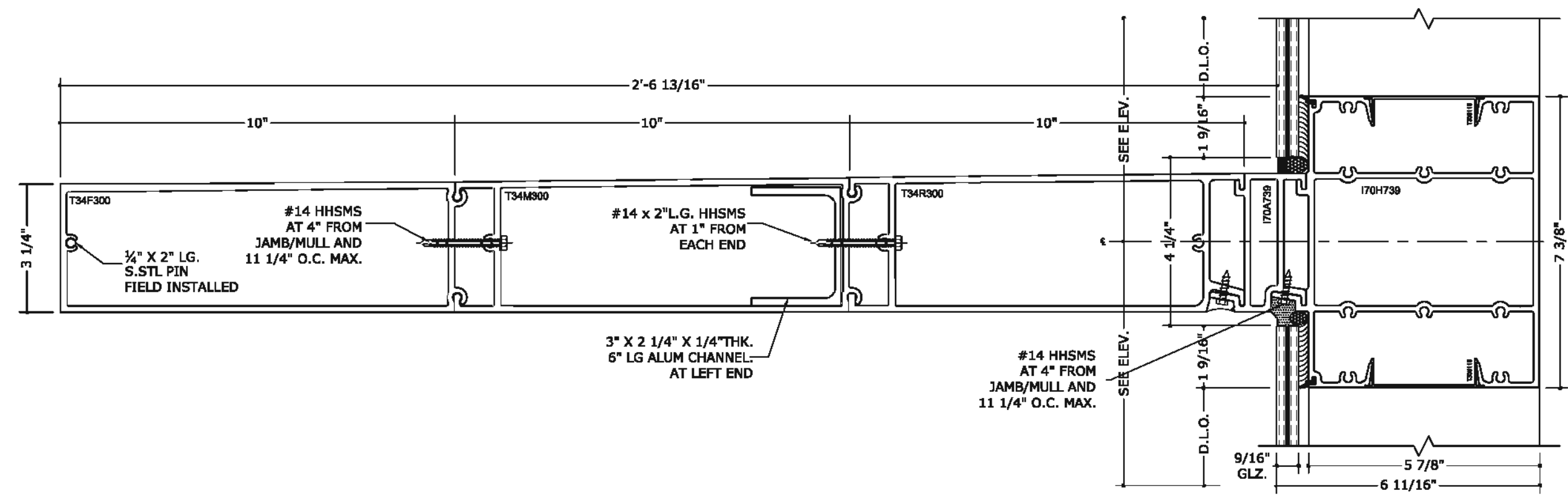
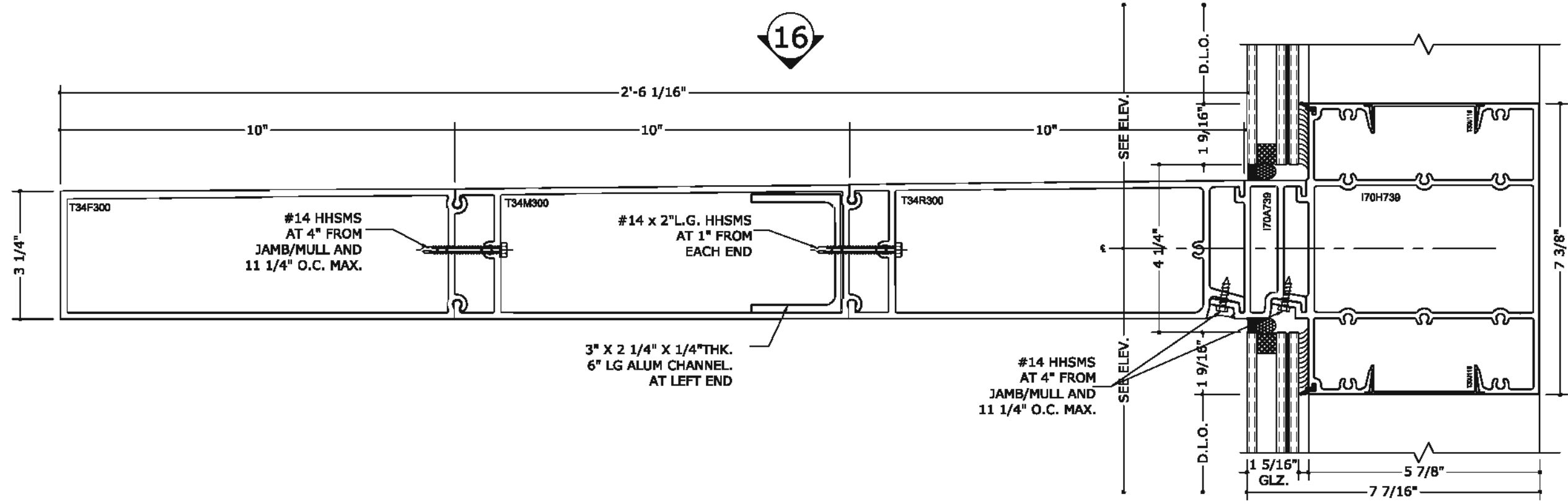
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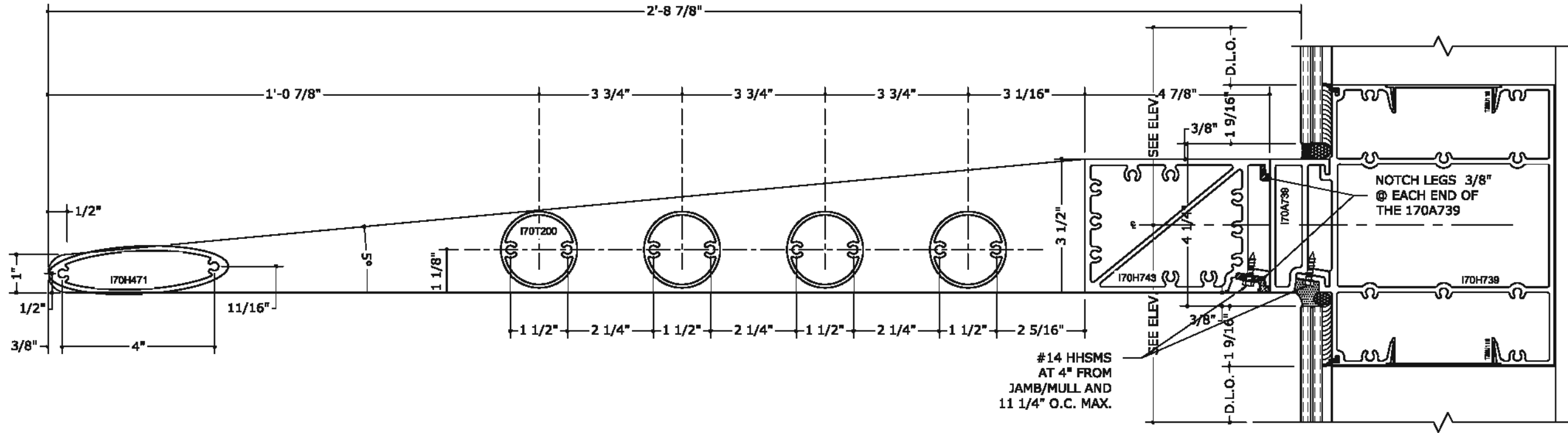
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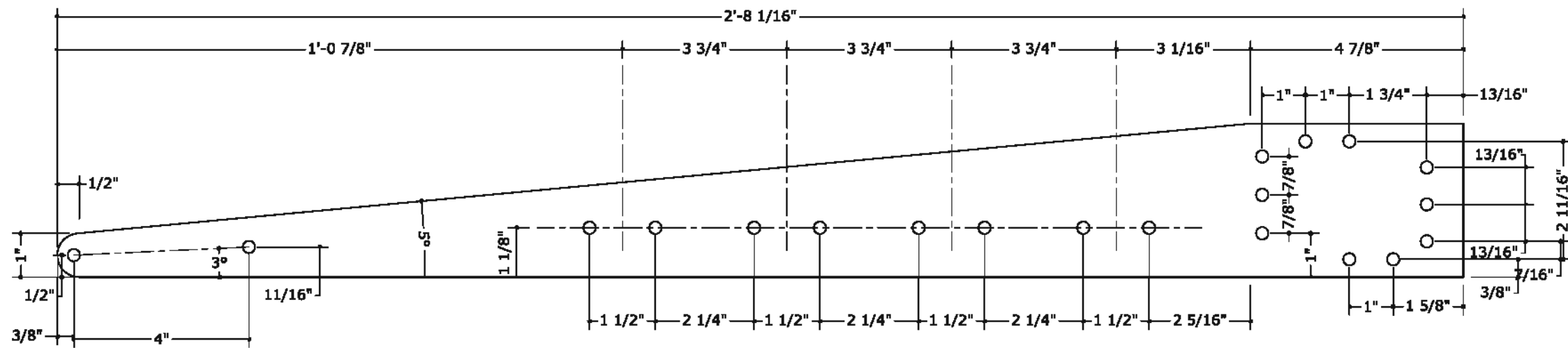
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15.1 SUNSHADE 2



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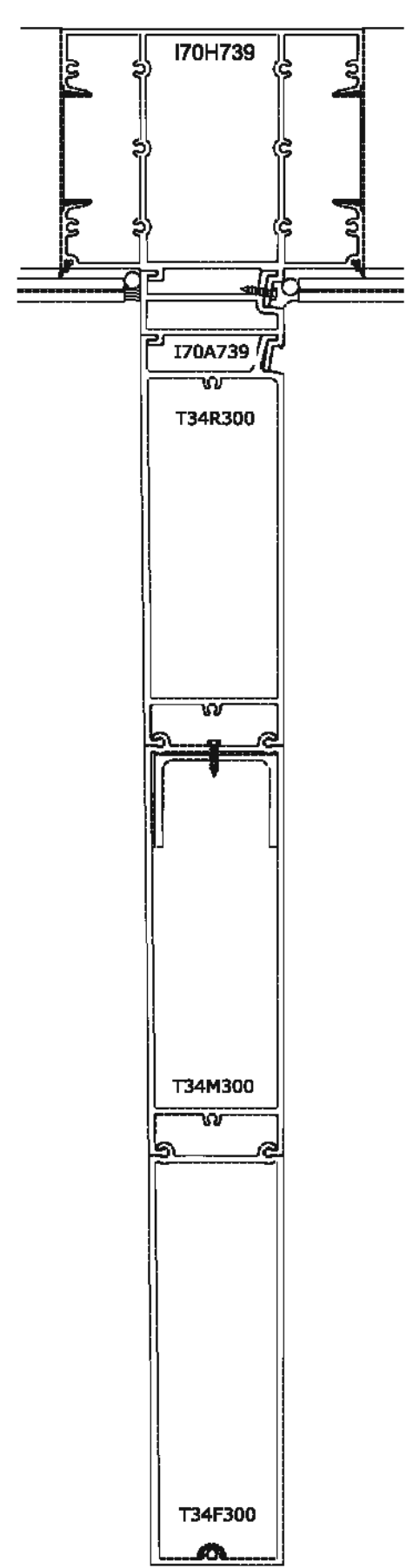
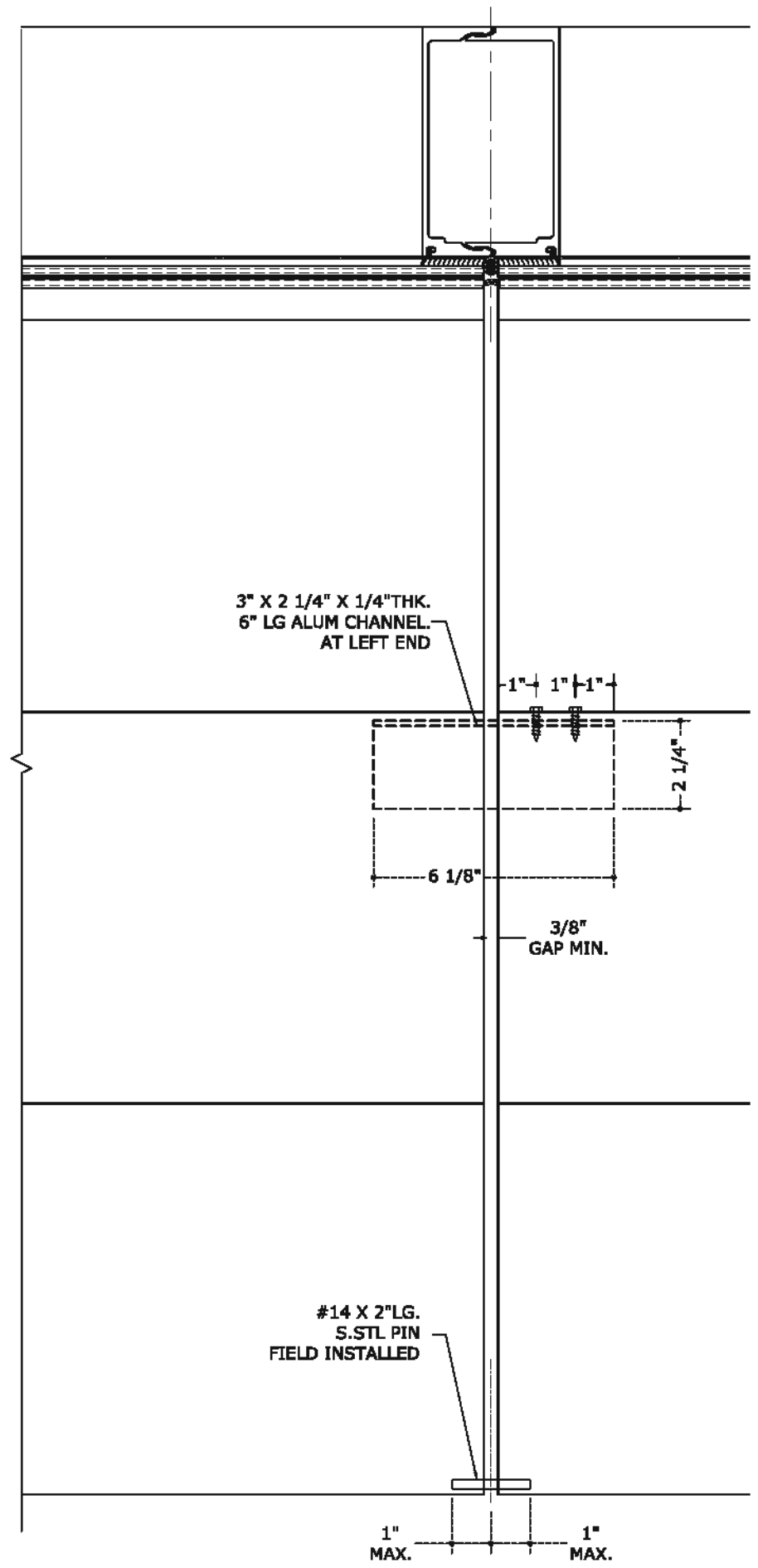
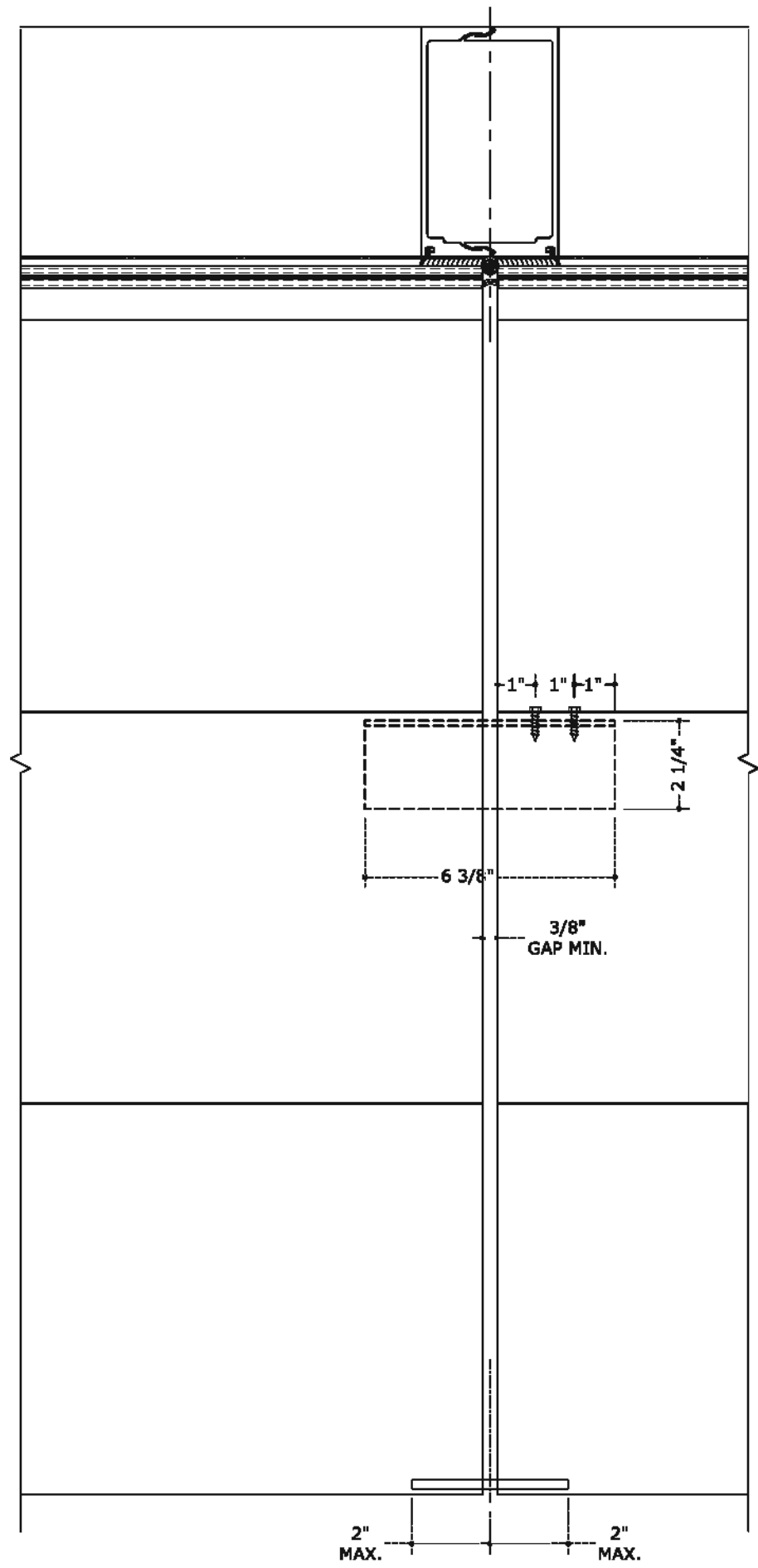
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16 SUNSHADE DETAIL



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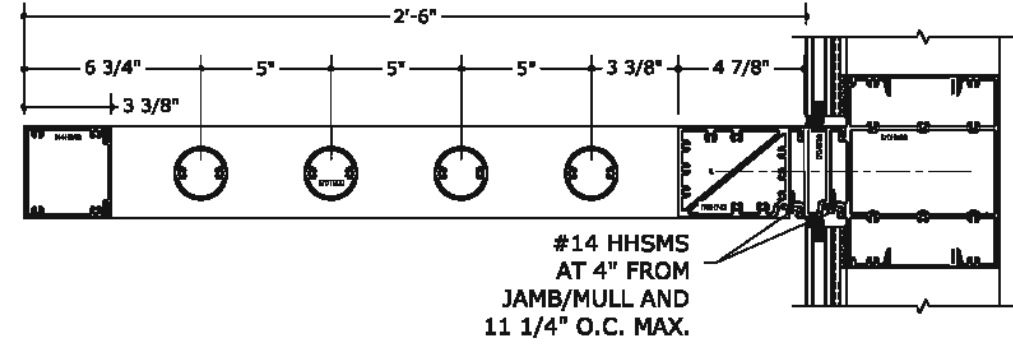
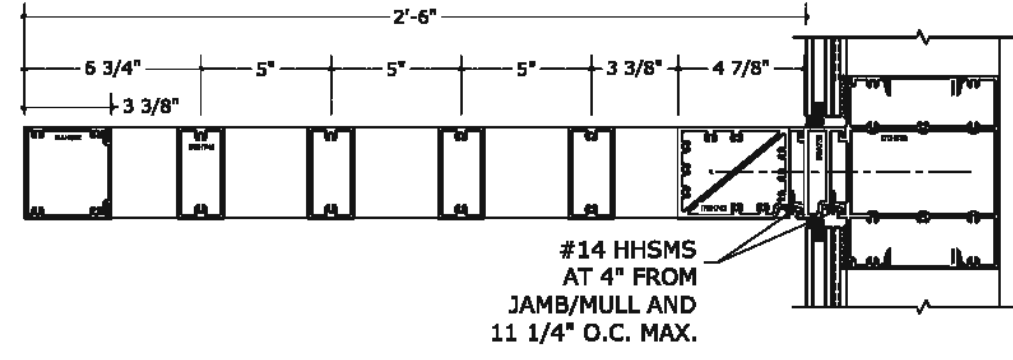
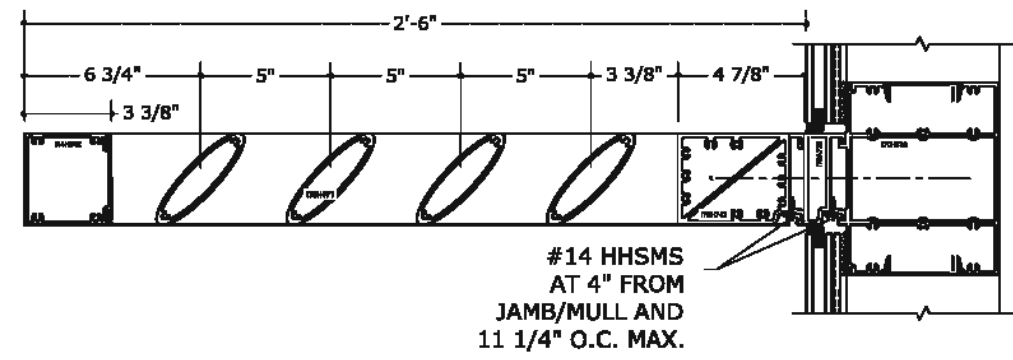
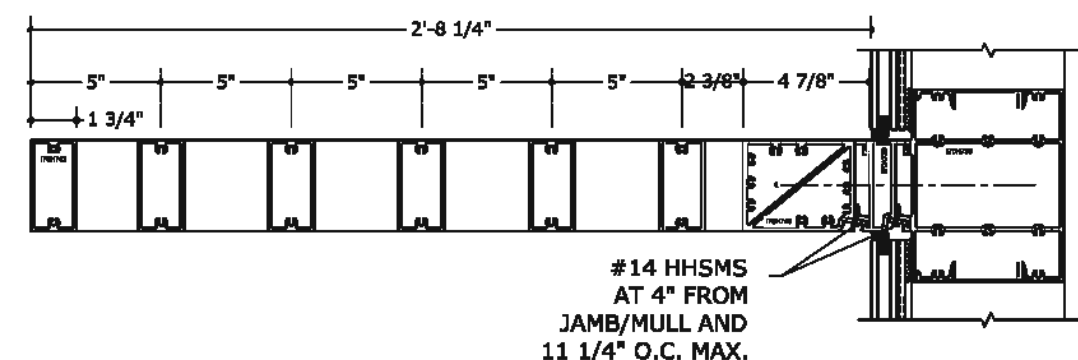
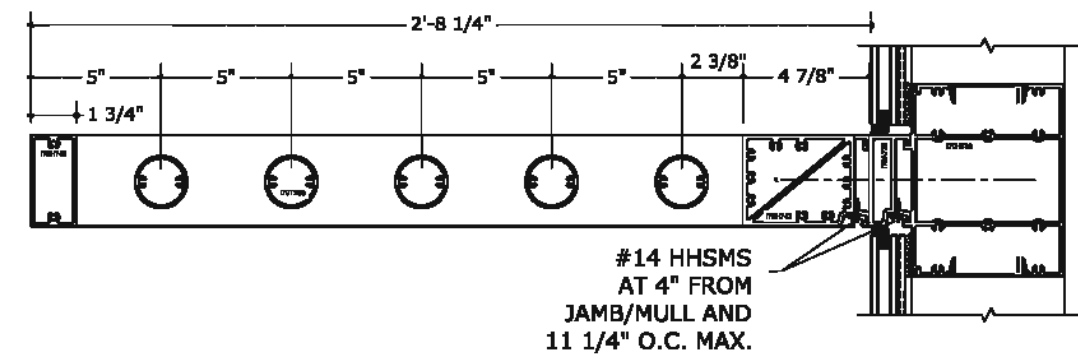
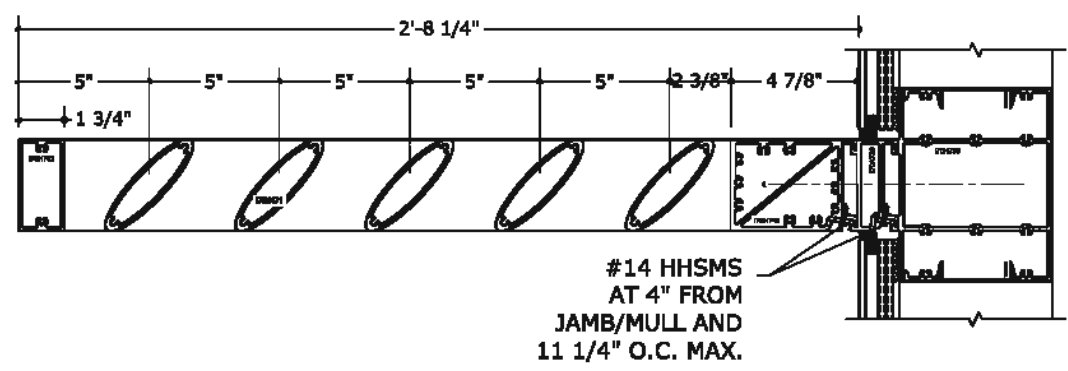
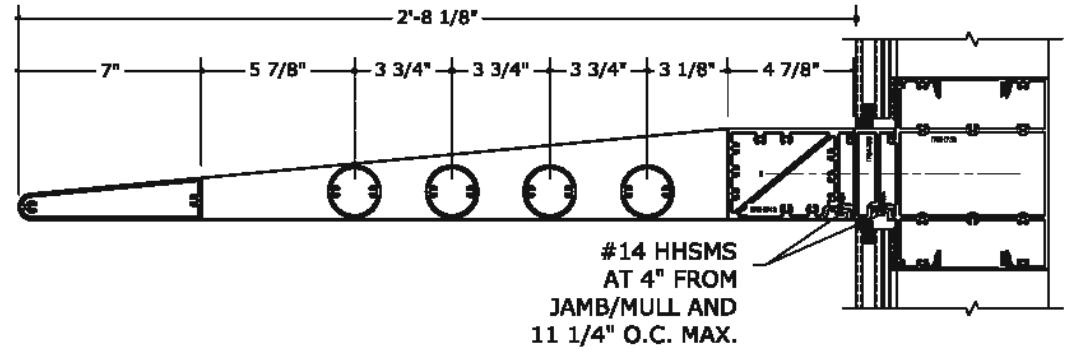
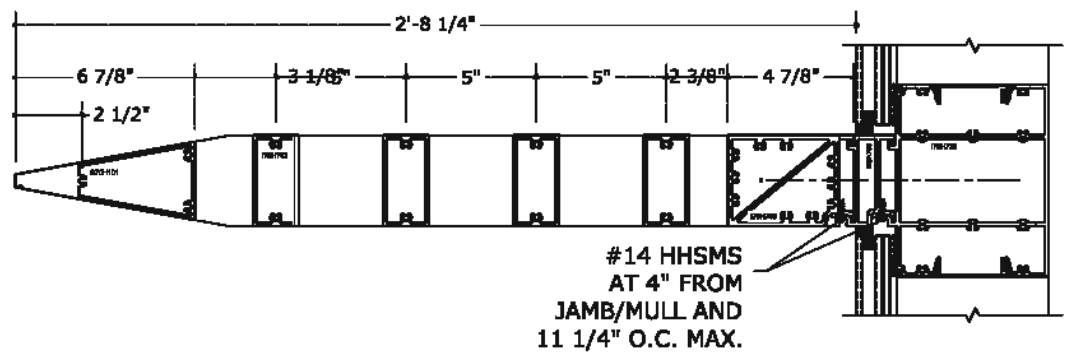
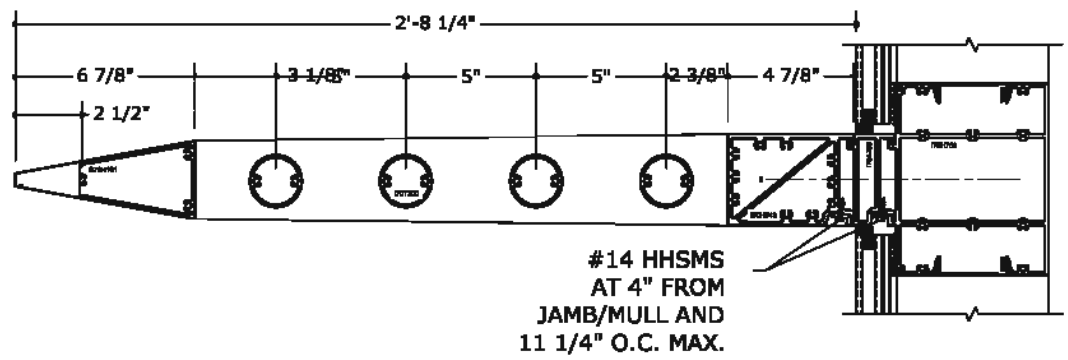
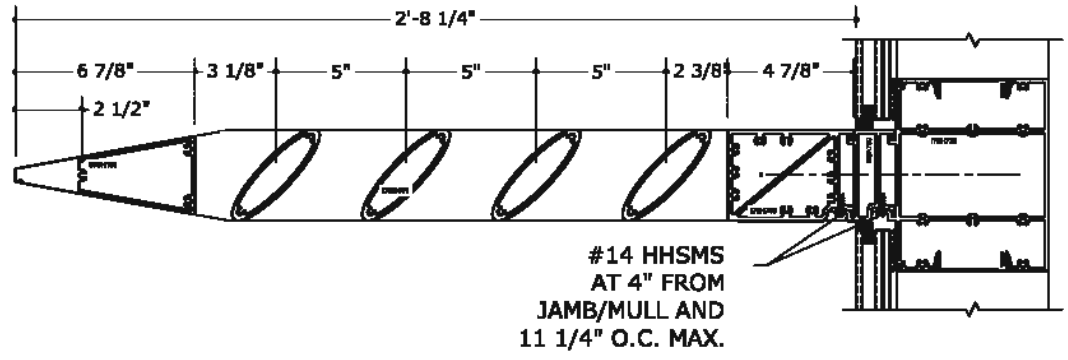
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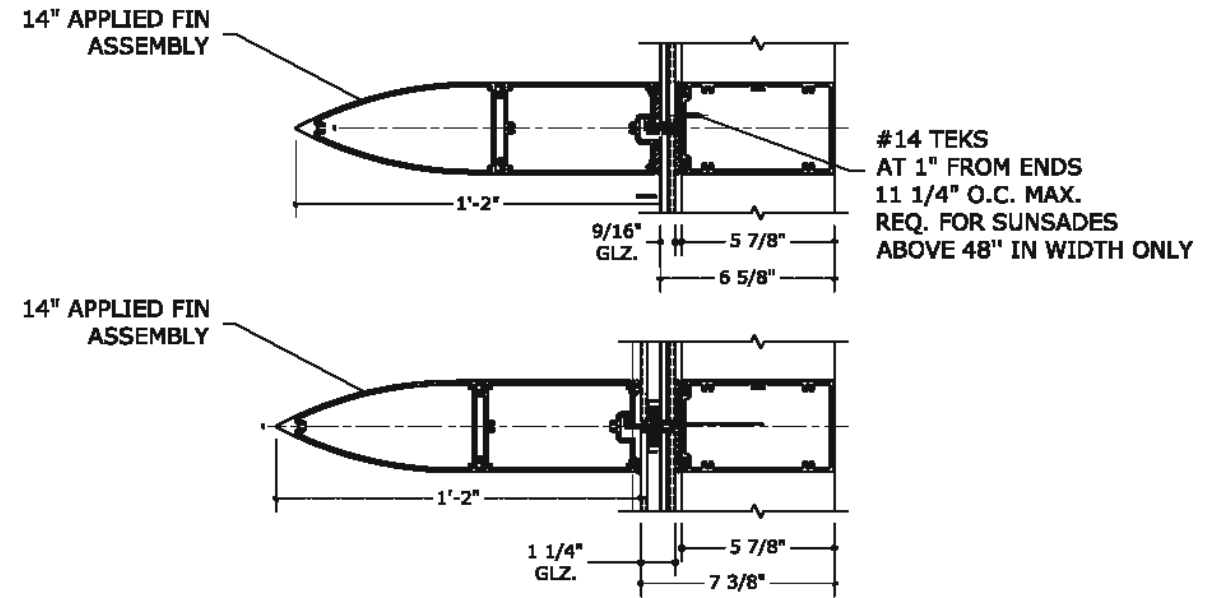
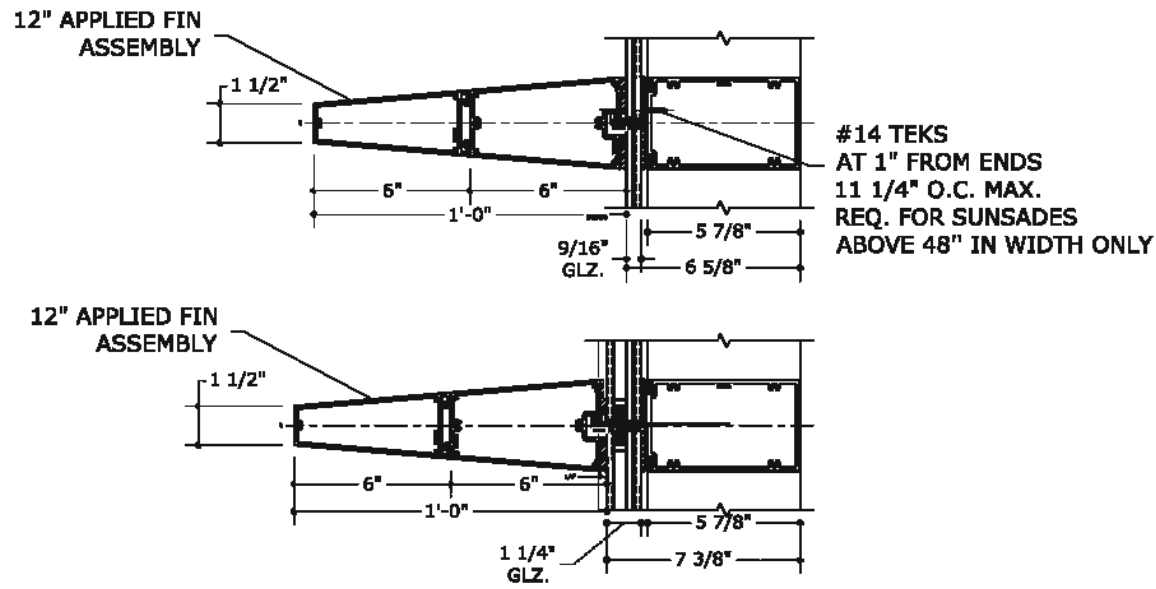
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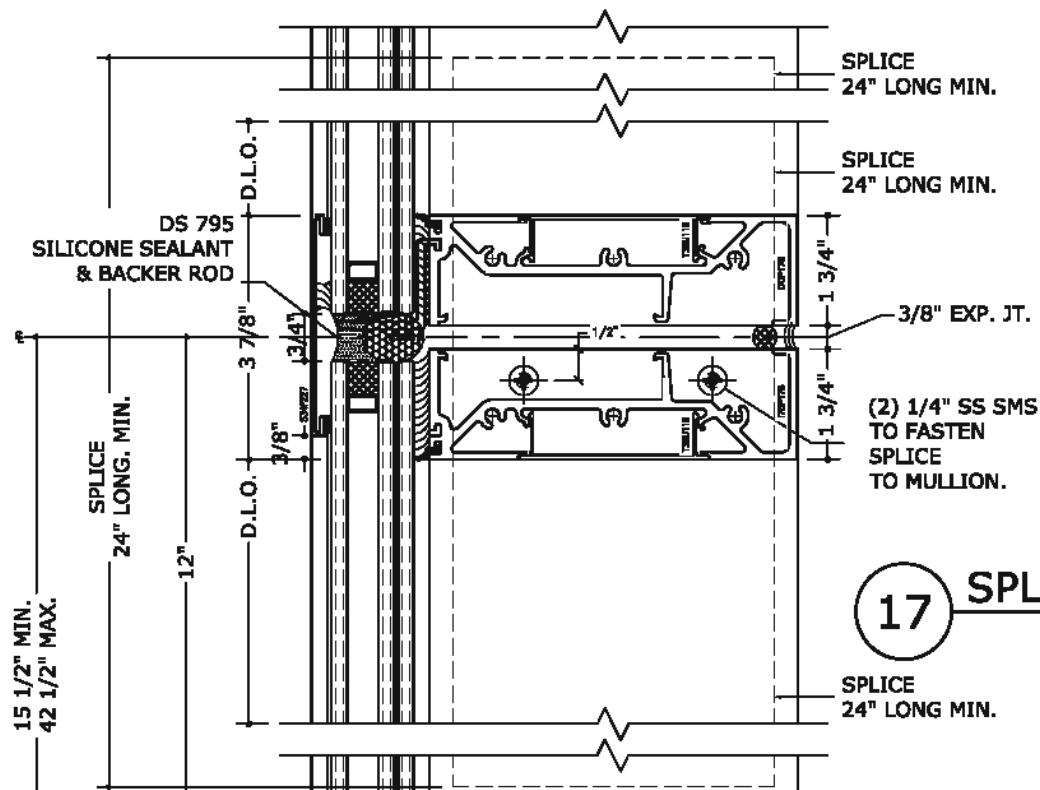
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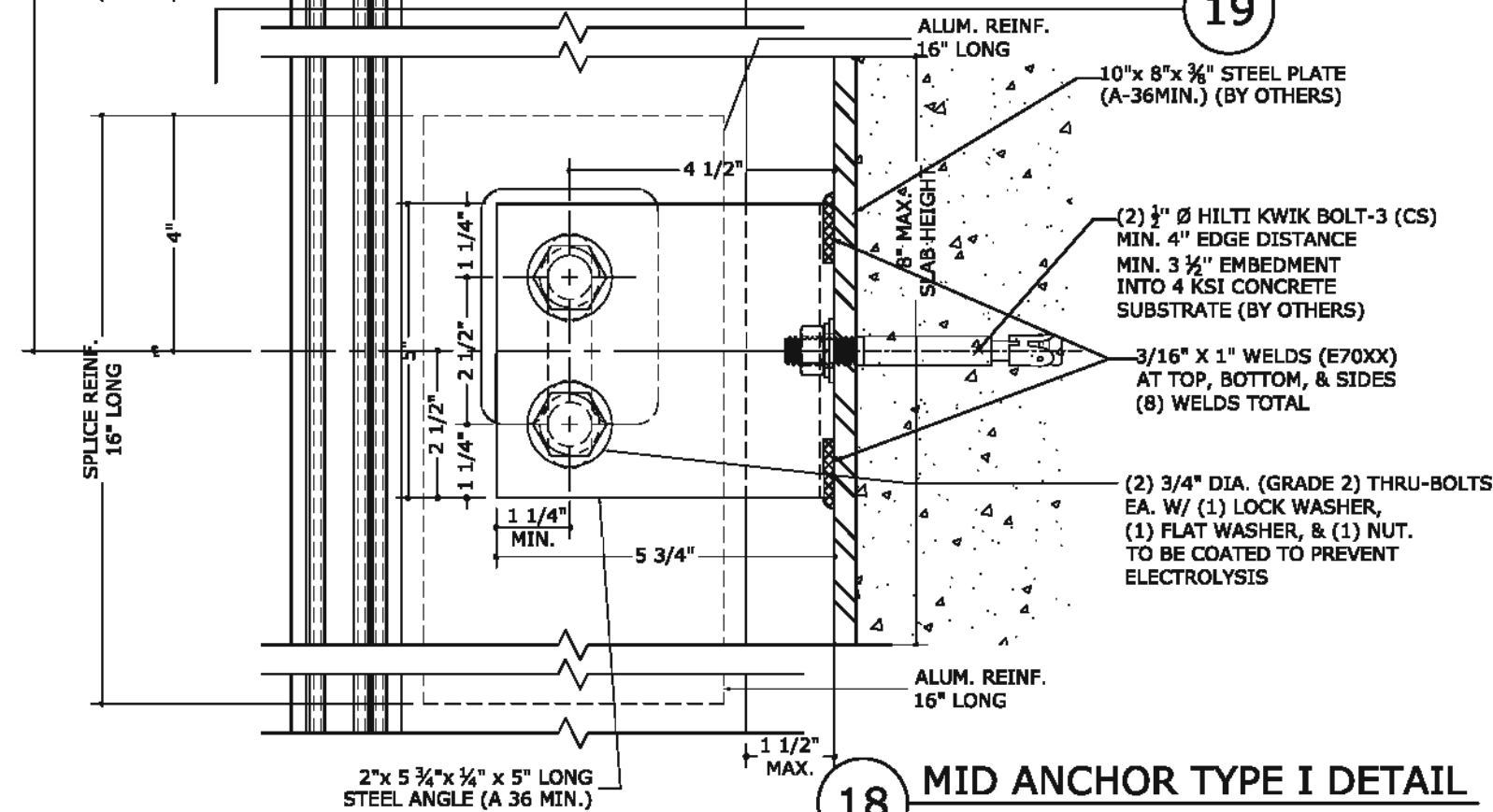
55



LIMIT MAX. DESIGN LOADS FOR THIS HORIZONTAL AS FOLLOWS

HORIZ. SPAN MAX.	DESIGN LOADS
60"	120 PSF
68"	80 PSF
72"	65 PSF

17 SPLICE JOINT DETAIL

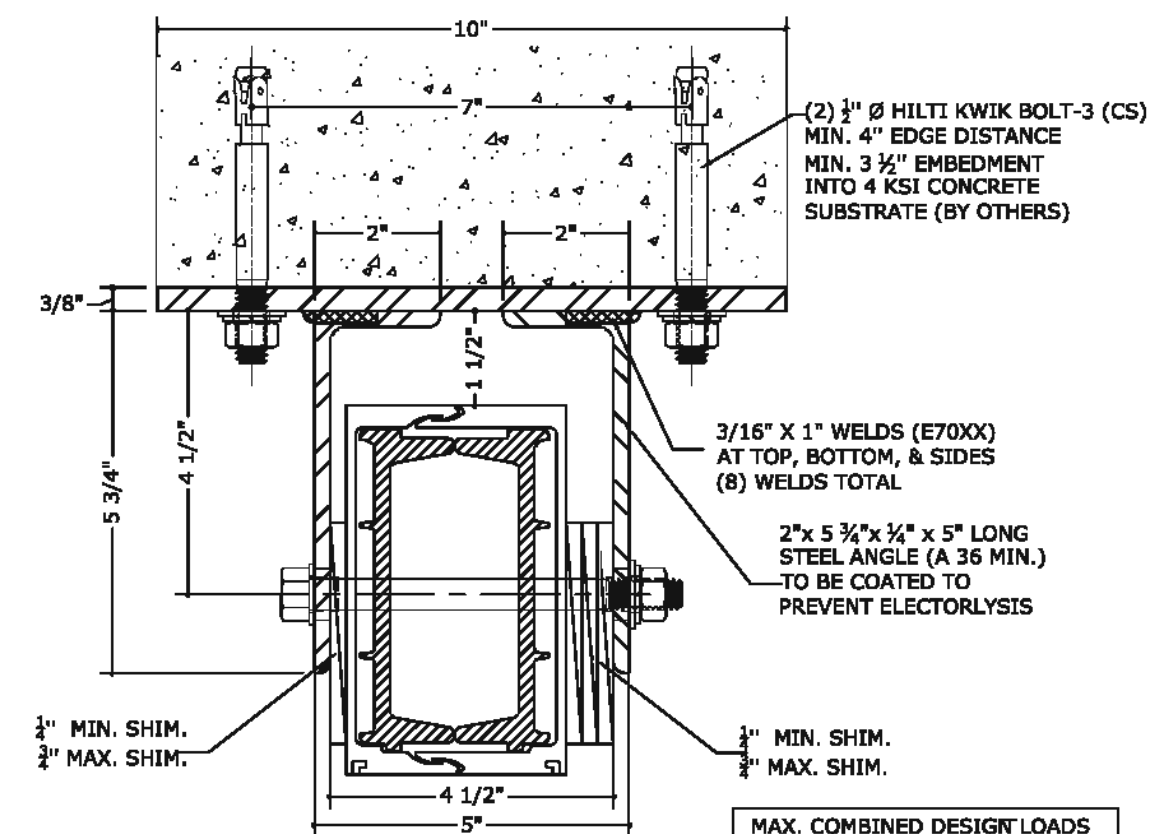


MAX. COMBINED DESIGN LOADS FOR ANCHOR CONNECTION SHOWN

DEAD LOAD	WIND / TENSION LOAD
1500 lbs	2,250 lbs

18 MID ANCHOR TYPE I DETAIL

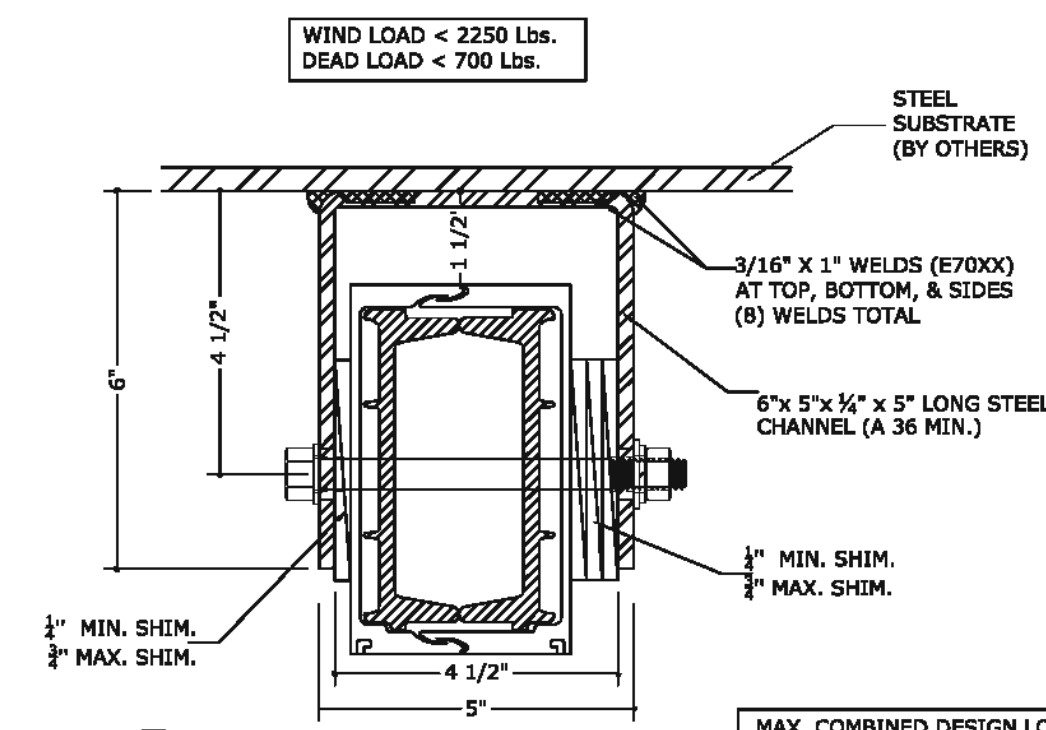
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 - IF A LONGER CLEARANCE FROM BACK OF MULLION TO SUBSTRATE PLANE THAN 1" SHOWN ABOVE, THEN THE MID ANCHOR SHALL BE DESIGNED TO SITE SPECIFIC CONDITIONS AND SHALL BE APPROVED BY A PROFESSIONAL ENGINEER



MAX. COMBINED DESIGN LOADS FOR ANCHOR CONNECTION SHOWN

DEAD LOAD	WIND / TENSION LOAD
1500 lbs	2,250 lbs

19 MID ANCHOR DETAIL



MAX. COMBINED DESIGN LOADS FOR WELDED CONNECTION SHOWN

DEAD LOAD	WIND / TENSION LOAD
1500 lbs	10,000 lbs

19.1 MID ANCHOR DETAIL

WELD CAPACITY



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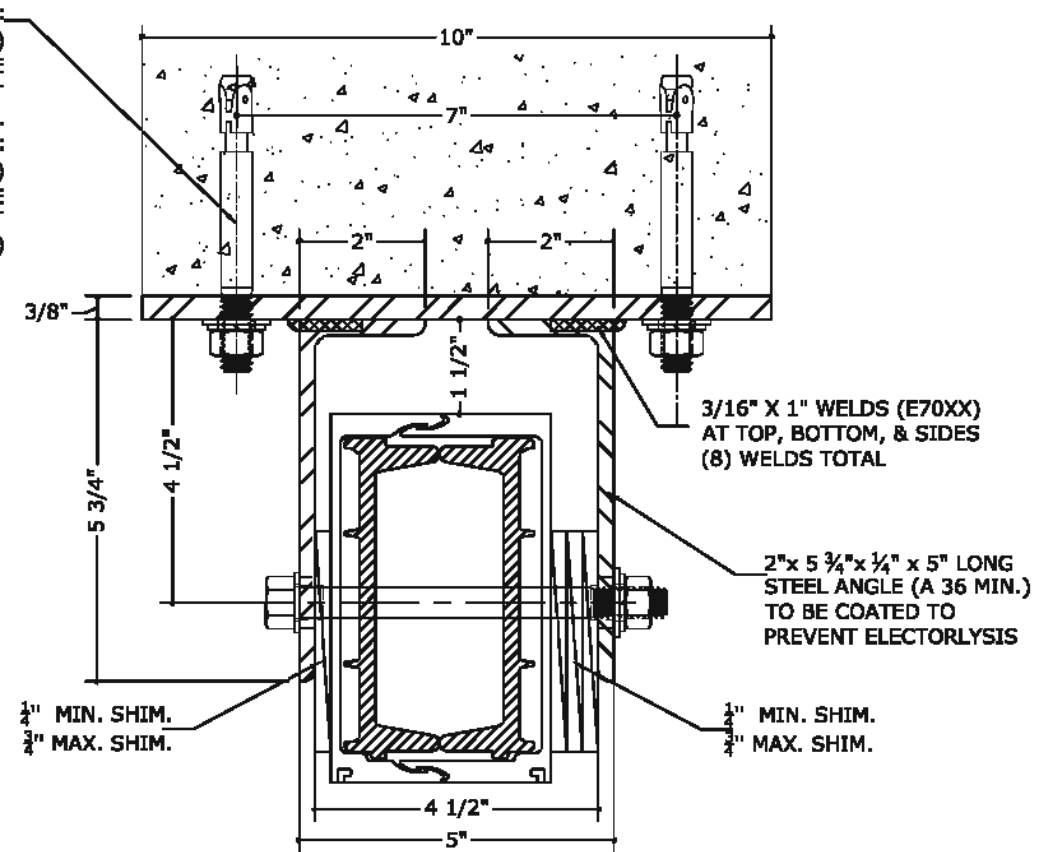
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TYPE II:
(4) 1/2" Ø HILTI KWIK BOLT-3 (CS)
MIN. 4 1/2" EDGE DISTANCE
MIN. 3 1/4" EMBEDMENT
INTO 3 KSI CONCRETE SUBSTRATE (BY OTHERS).

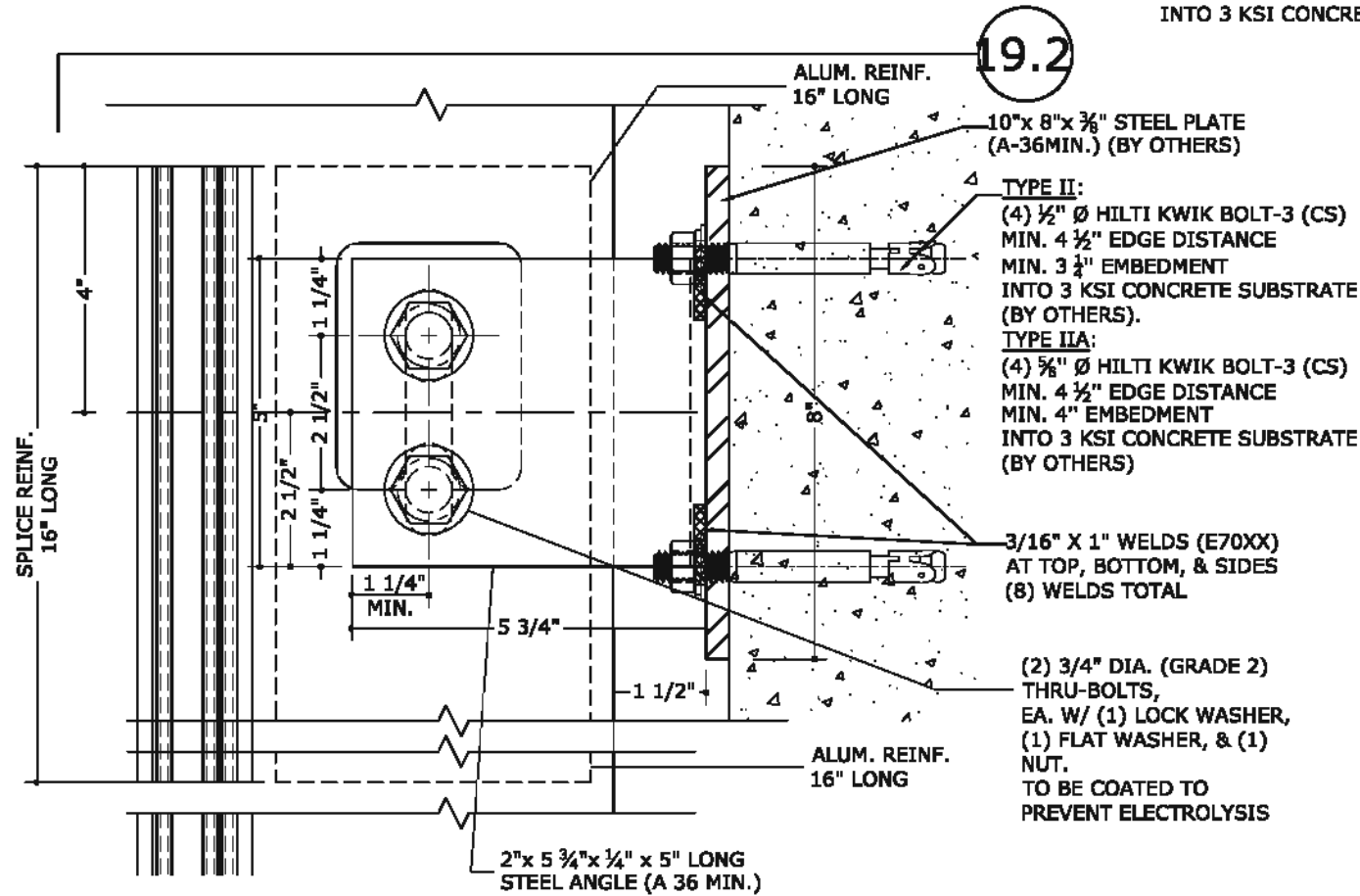
TYPE IIA:
(4) 5/8" Ø HILTI KWIK BOLT-3 (CS)
MIN. 4 1/2" EDGE DISTANCE
MIN. 4" EMBEDMENT
INTO 3 KSI CONCRETE SUBSTRATE (BY OTHERS)



19.2 MID ANCHOR TYPE II DETAIL

MAX. COMBINED DESIGN LOADS FOR CONNECTION SHOWN ABOVE INTO 3 KSI CONCRETE

CONCRETE	DEAD LOAD	WIND / TENSION LOADS TYPE II	WIND / TENSION LOADS TYPE IIA
3 KSI (12" THK MIN.)	1500 lbs	4300 lbs	3900 lbs
3 KSI (14" THK MIN.)	1500 lbs	5000 lbs	4600 lbs
3 KSI (16" THK MIN.)	1500 lbs	6600 lbs	5850 lbs

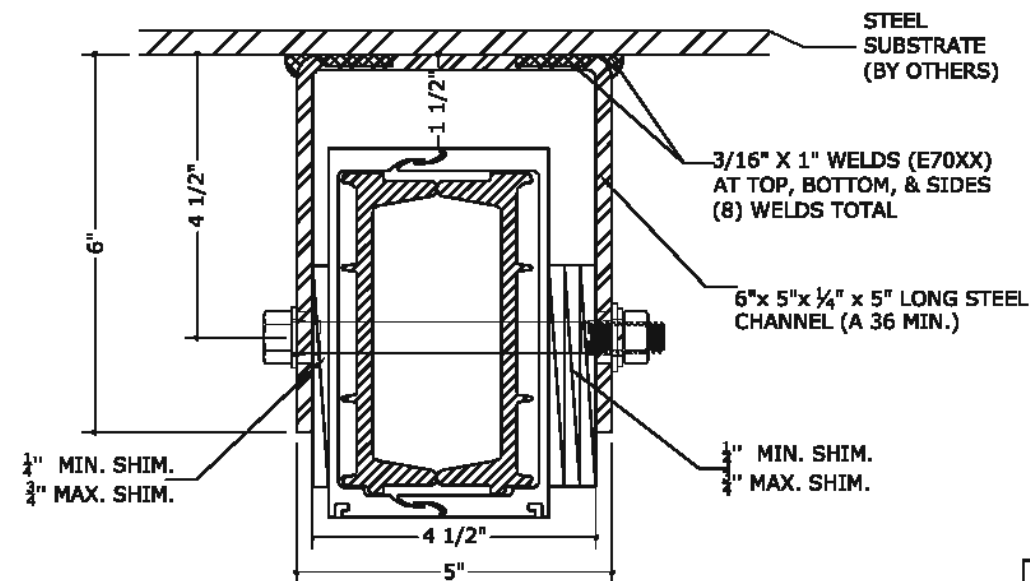


18.1 MID ANCHOR TYPE II & IIA DETAIL

MAX. COMBINED DESIGN LOADS FOR CONNECTION SHOWN ABOVE INTO 3 KSI CONCRETE

CONCRETE	DEAD LOAD	WIND / TENSION LOADS TYPE II	WIND / TENSION LOADS TYPE IIA
3 KSI (12" THK MIN.)	1500 lbs	4300 lbs	3900 lbs
3 KSI (14" THK MIN.)	1500 lbs	5000 lbs	4600 lbs
3 KSI (16" THK MIN.)	1500 lbs	6600 lbs	5850 lbs

NOTES:
- IF HIGHER CONNECTION CAPACITIES ARE NEEDED, THEN APPROPRIATE ANCHORING SHALL BE DETERMINED PER SITE SPECIFIC ENGINEERING
- IF A LONGER CLEARANCE FROM BACK OF MULLION TO SUBSTRATE PLANE THAN 1" SHOWN ABOVE, THEN THE MID ANCHOR SHALL BE DESIGNED TO SITE SPECIFIC CONDITIONS AND SHALL BE APPROVED BY A PROFESSIONAL ENGINEER

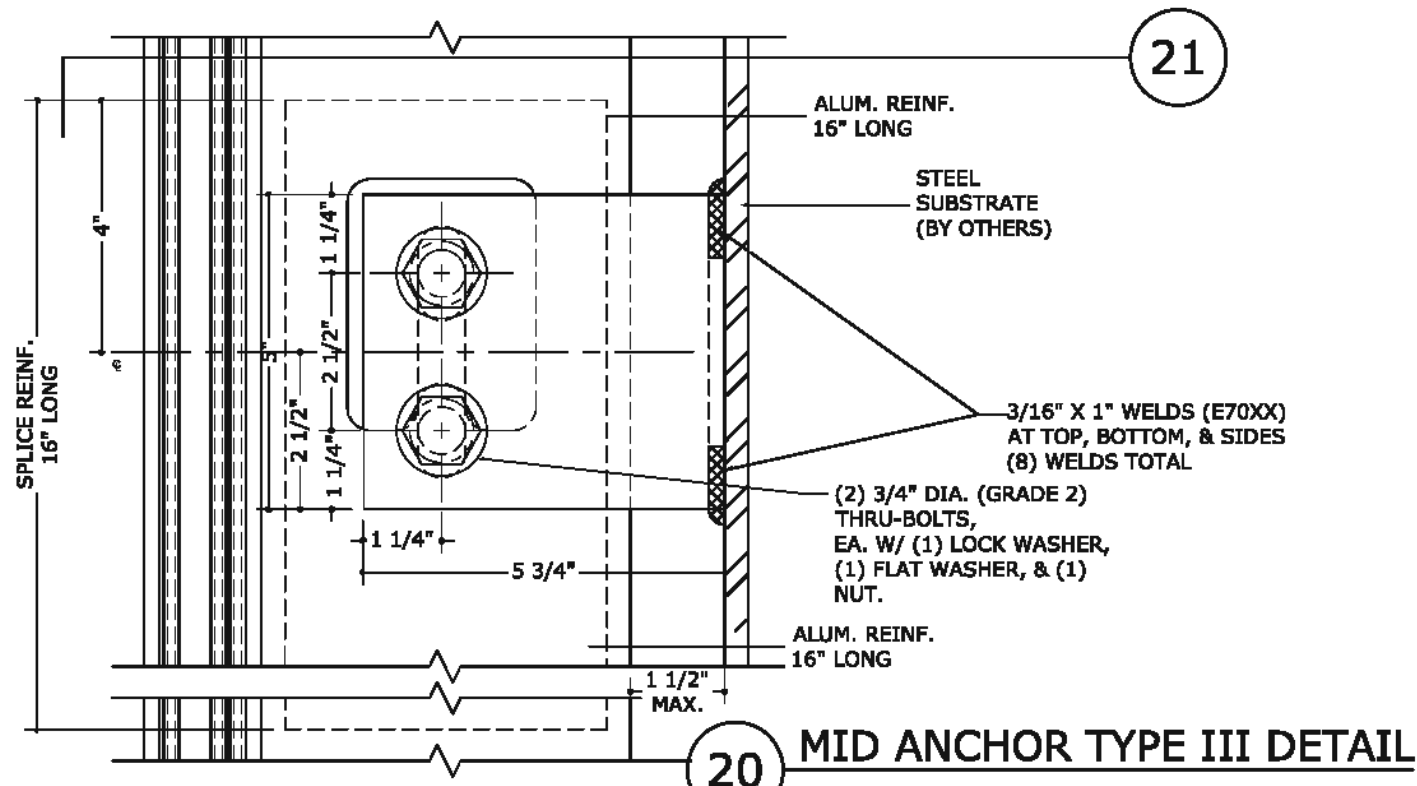


19.3 MID ANCHOR TYPE IIA DETAIL

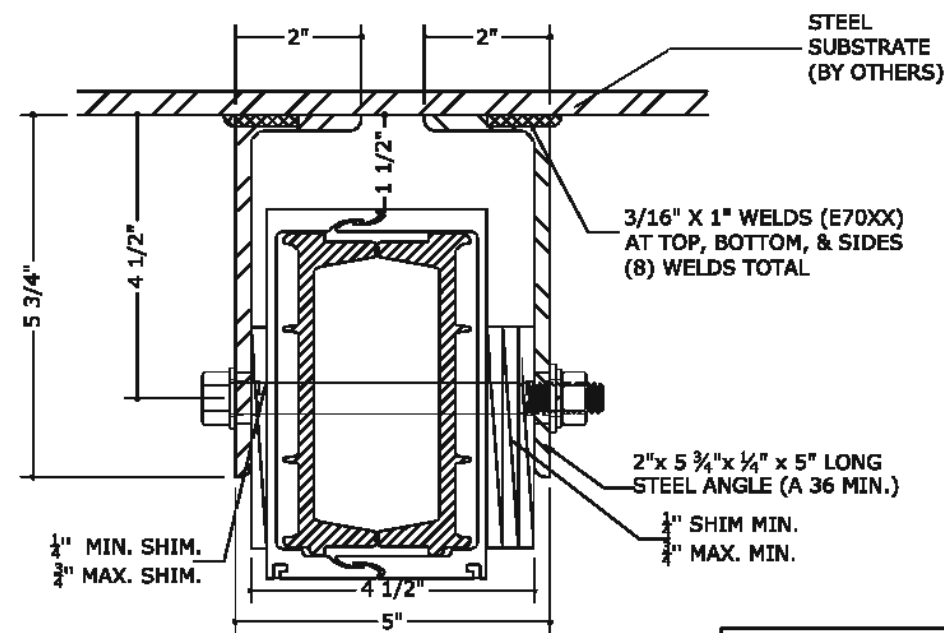
MAX. COMBINED DESIGN LOADS FOR WELDED CONNECTION SHOWN

DEAD LOAD	WIND / TENSION LOAD
1500 lbs	10,000 lbs

COMBINED WELD CAPACITY



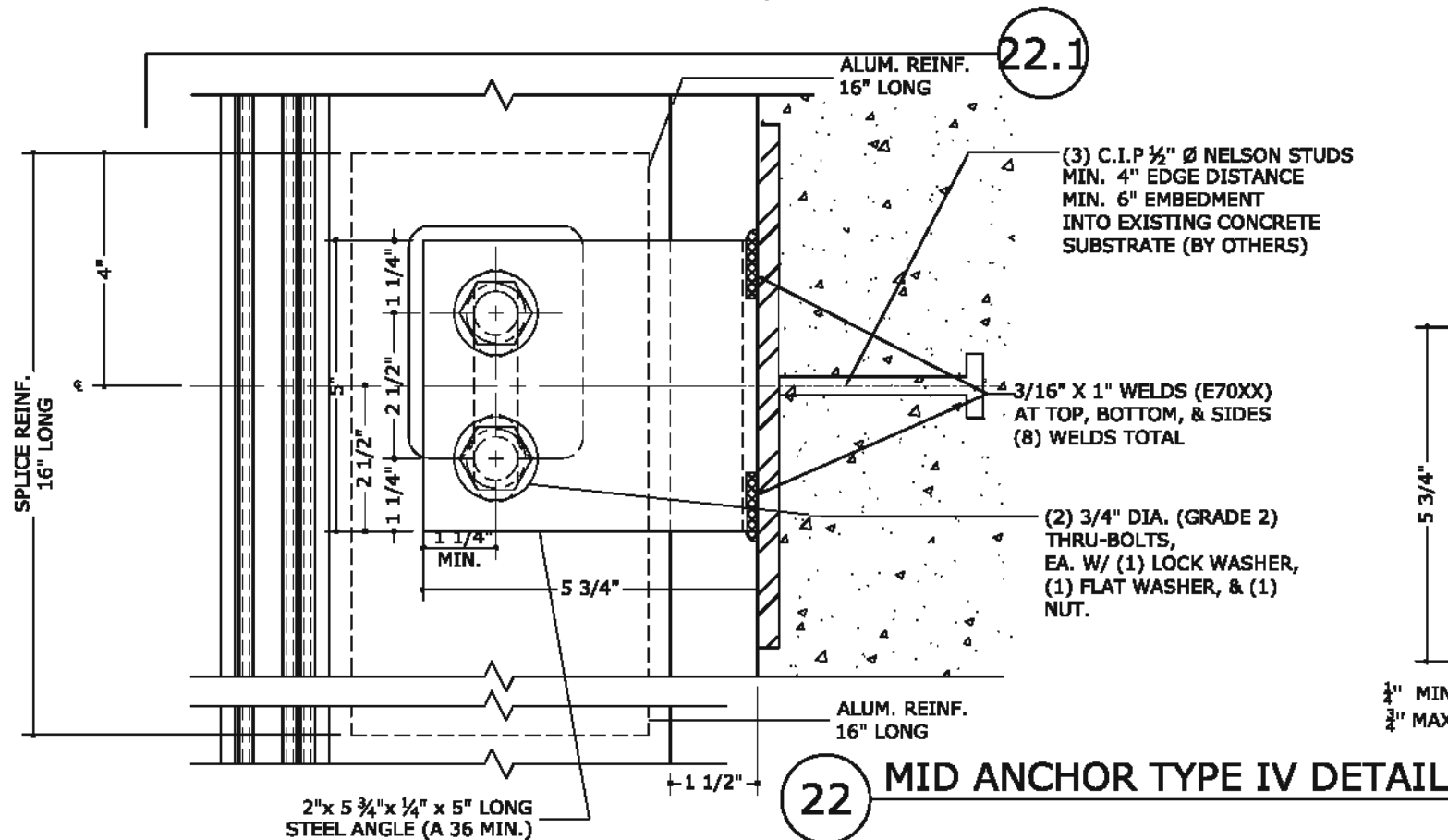
20 MID ANCHOR TYPE III DETAIL



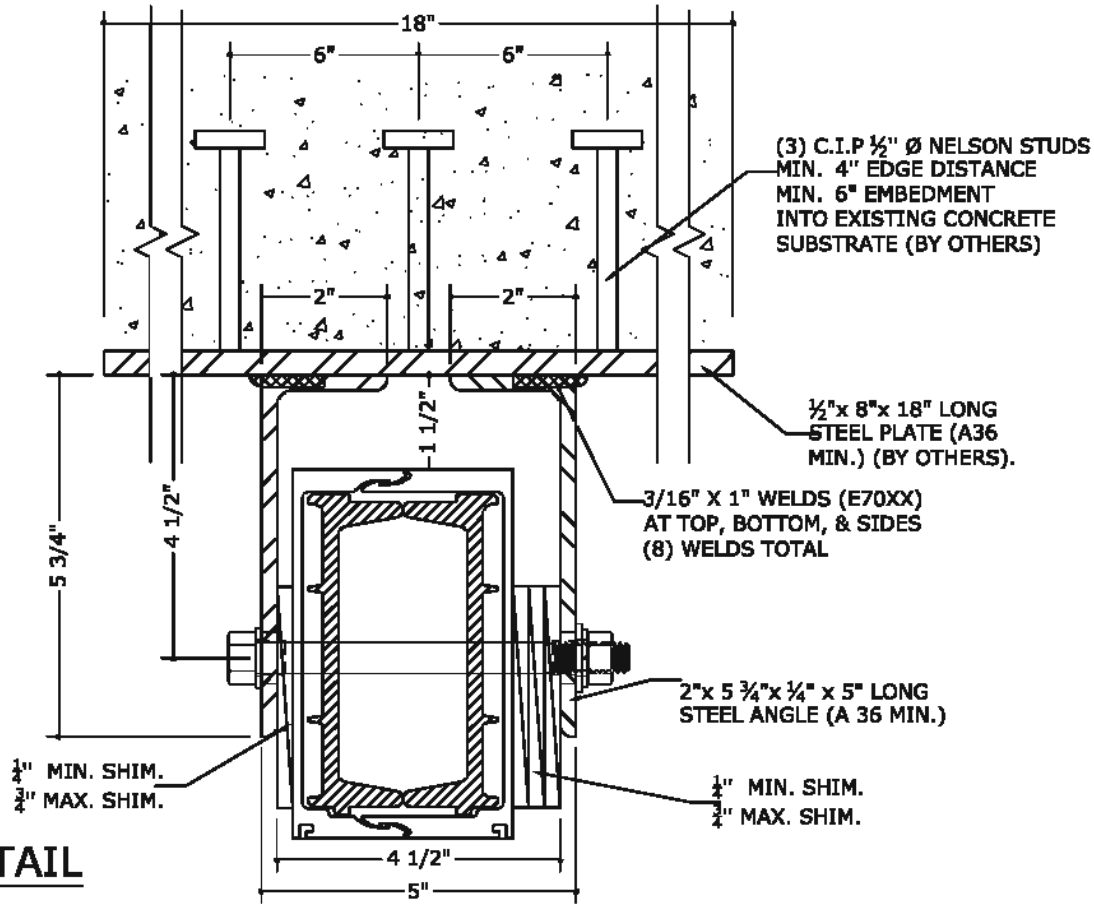
21 MID ANCHOR DETAIL TYPE III DETAIL

MAX. COMBINED DESIGN LOADS FOR WELDED CONNECTION	
DEAD LOAD	WIND / TENSION LOAD
1500 lbs	10,000 lbs

COMBINED WELD CAPACITY



22 MID ANCHOR TYPE IV DETAIL



22.1 MID ANCHOR TYPE IV DETAIL

NOTES:
 - IF HIGHER CONNECTION CAPACITIES ARE NEEDED, THEN APPROPRIATE ANCHORING SHALL BE DETERMINED PER SITE SPECIFIC ENGINEERING
 - IF A LONGER CLEARANCE FROM BACK OF MULLION TO SUBSTRATE PLANE THAN 1" SHOWN ABOVE, THEN THE MID ANCHOR SHALL BE DESIGNED TO SITE SPECIFIC CONDITIONS AND SHALL BE APPROVED BY A PROFESSIONAL ENGINEER

WIND LOAD ≤ 6000 Lbs.
 DEAD LOAD ≤ 1040 Lbs.



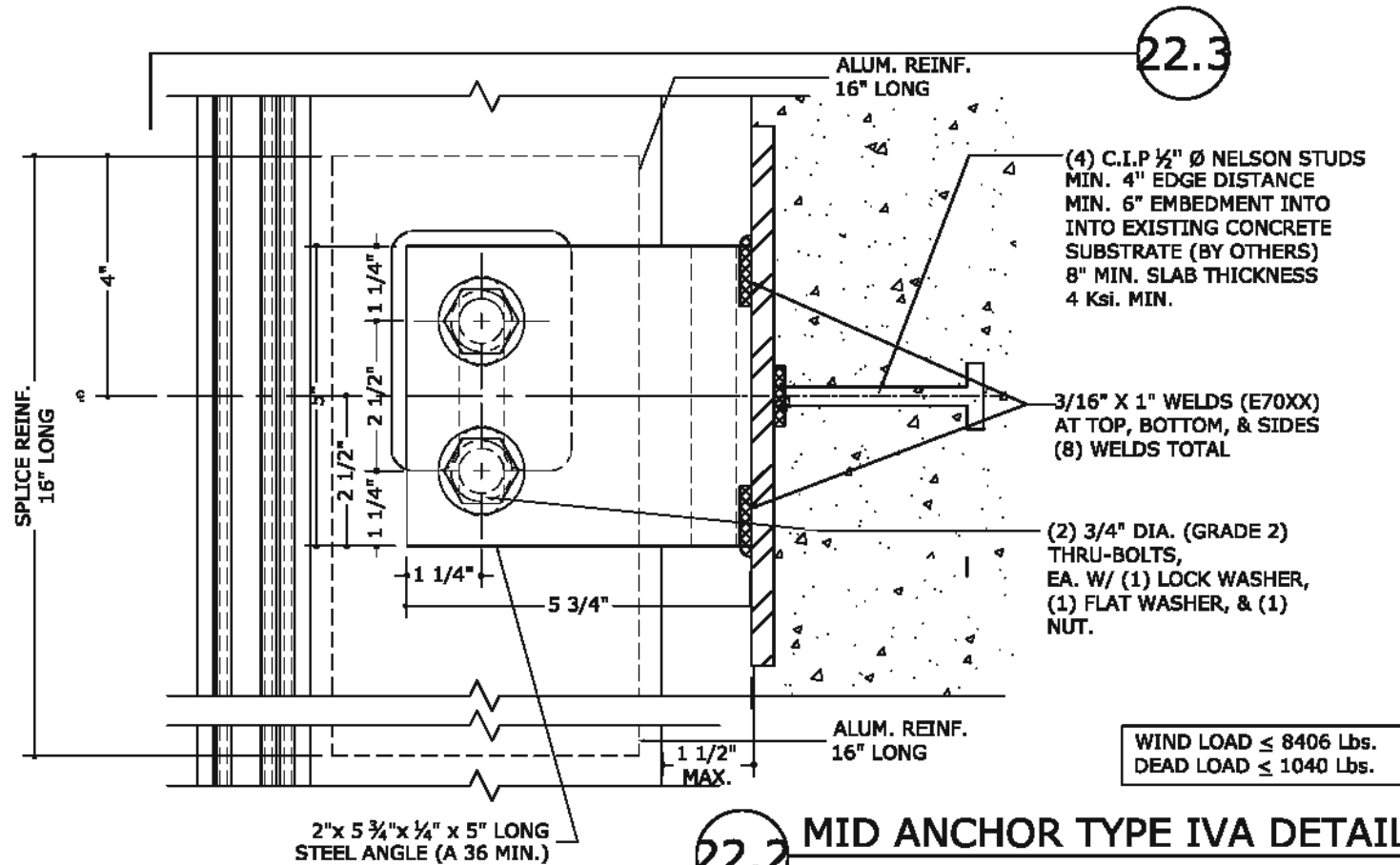
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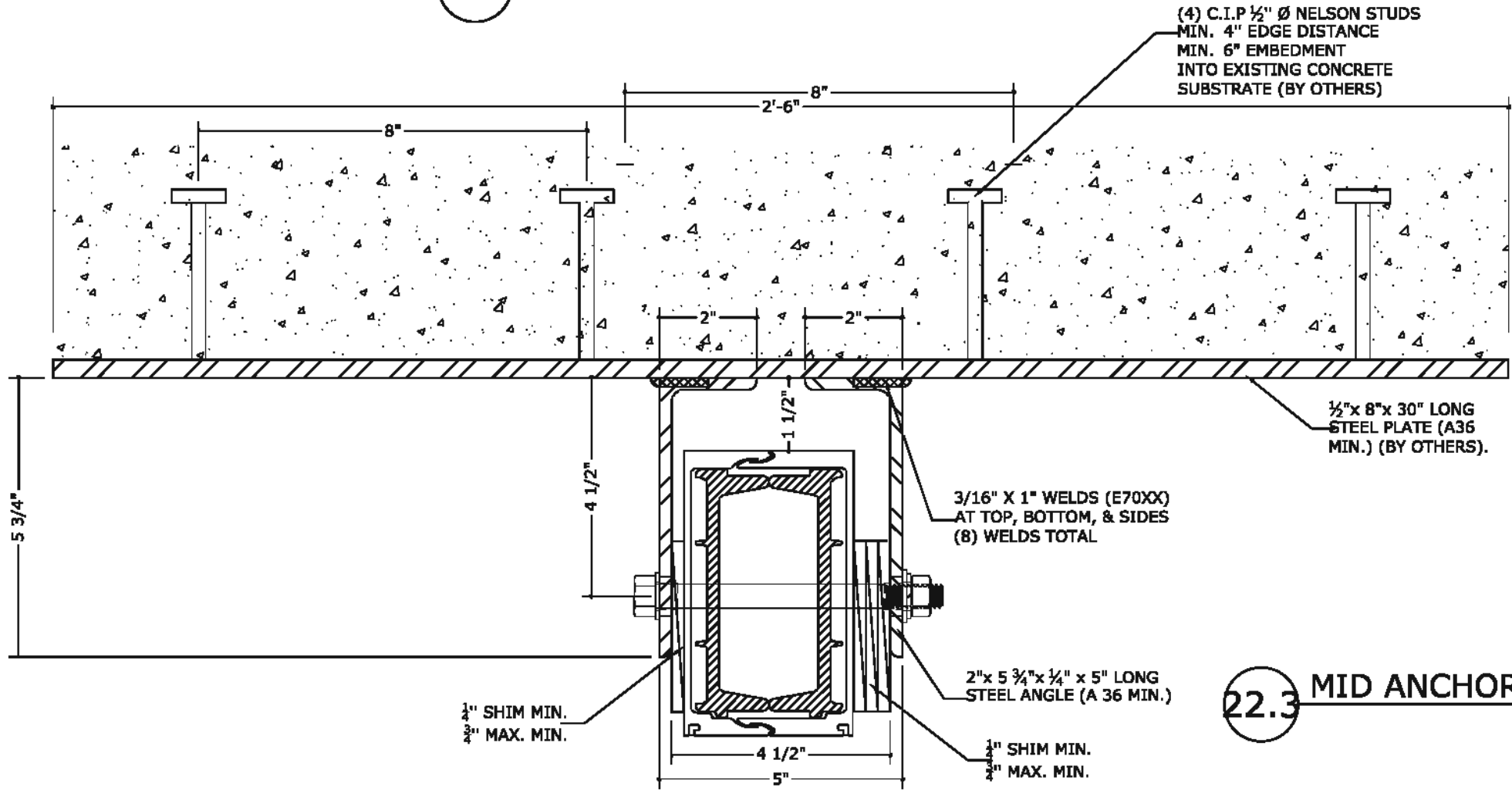
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22.2 MID ANCHOR TYPE IVA DETAIL



22.3 MID ANCHOR TYPE IVA DETAIL



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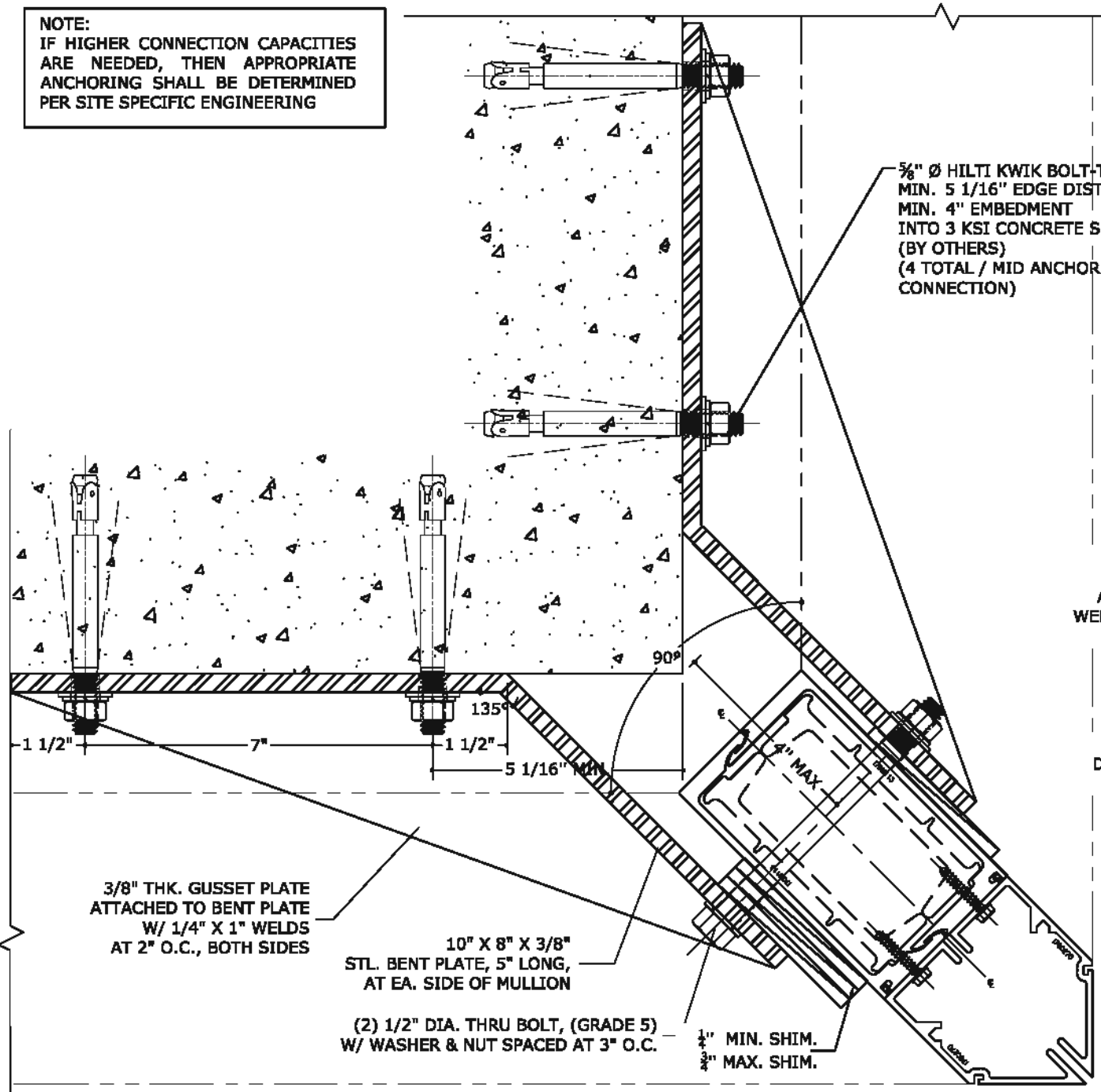
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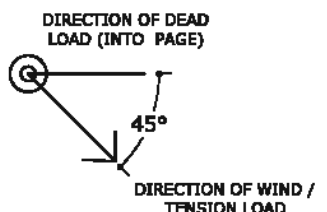
60

NOTE:
IF HIGHER CONNECTION CAPACITIES ARE NEEDED, THEN APPROPRIATE ANCHORING SHALL BE DETERMINED PER SITE SPECIFIC ENGINEERING



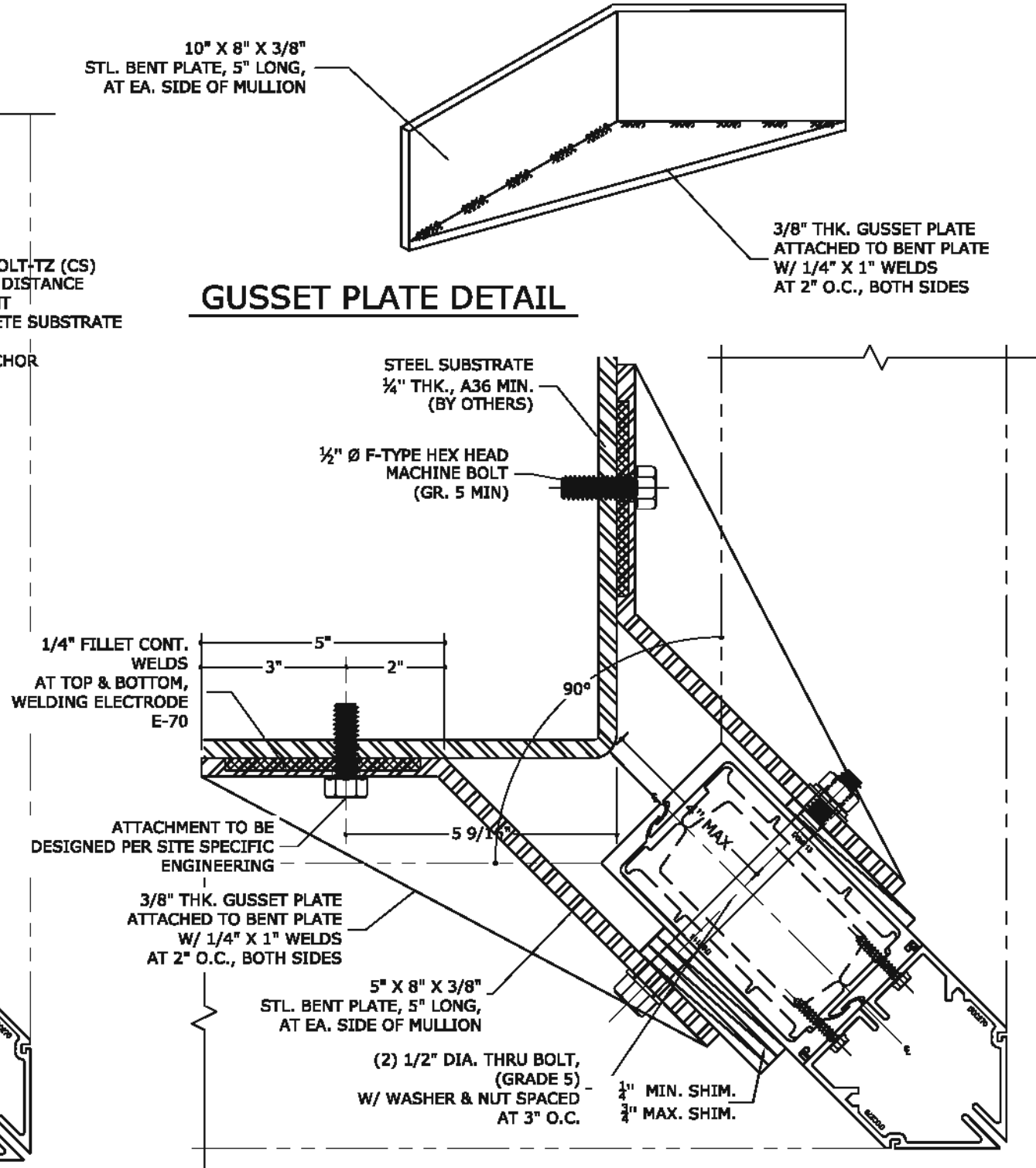
23 MID ANCHOR DETAIL AT CORNER

MAX. COMBINED DESIGN LOADS FOR CONNECTION SHOWN ABOVE INTO 3 KSI CONCRETE		
CONCRETE	DEAD LOAD	WIND / TENSION LOAD
3 KSI (12" THK MIN.)	1500 lbs	3000 lbs
3 KSI (14" THK MIN.)	1500 lbs	3750 lbs
3 KSI (16" THK MIN.)	1500 lbs	3975 lbs



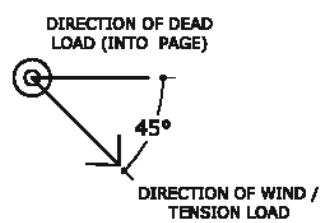
10" X 8" X 3/8" STL. BENT PLATE, 5" LONG, AT EA. SIDE OF MULLION

GUSSET PLATE DETAIL

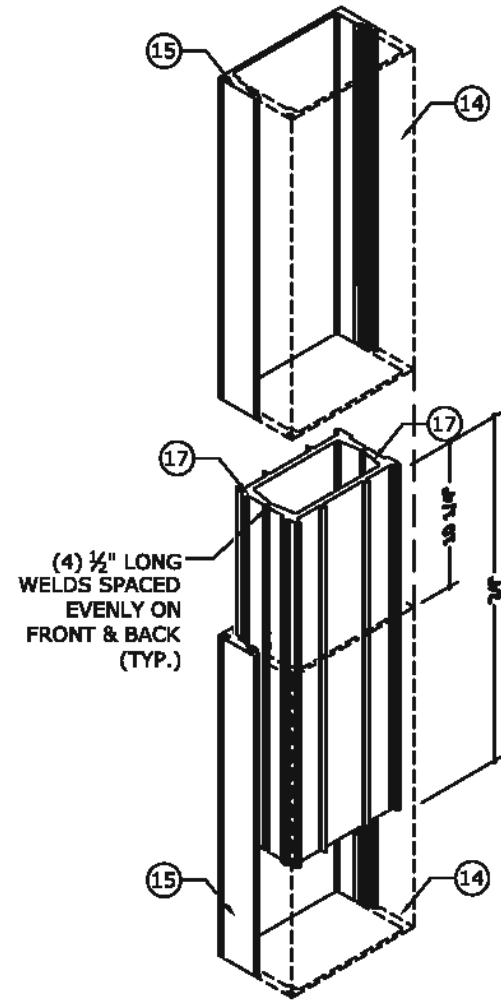


24 MID ANCHOR DETAIL AT CORNER

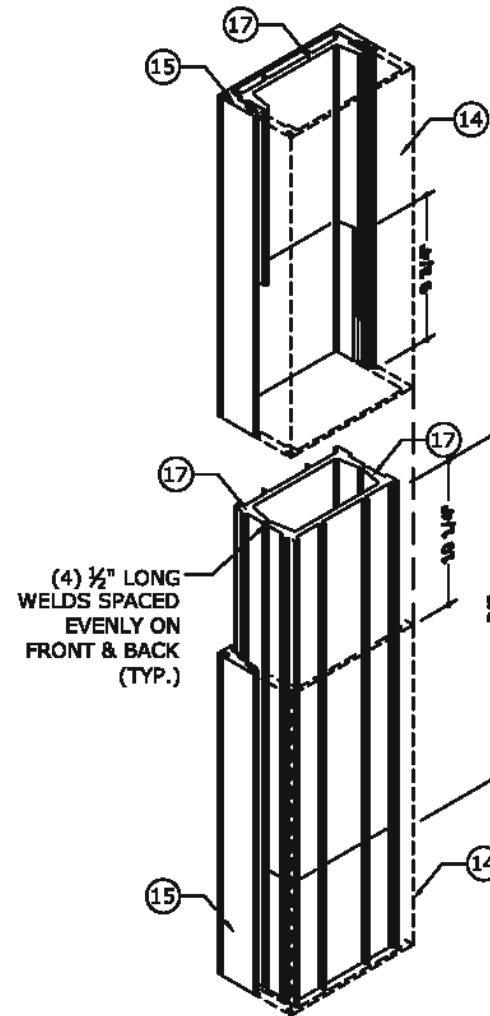
MAX. COMBINED DESIGN LOADS FOR CONNECTION SHOWN ABOVE	
DEAD LOAD	WIND / TENSION LOAD
1500 lbs	2969 lbs



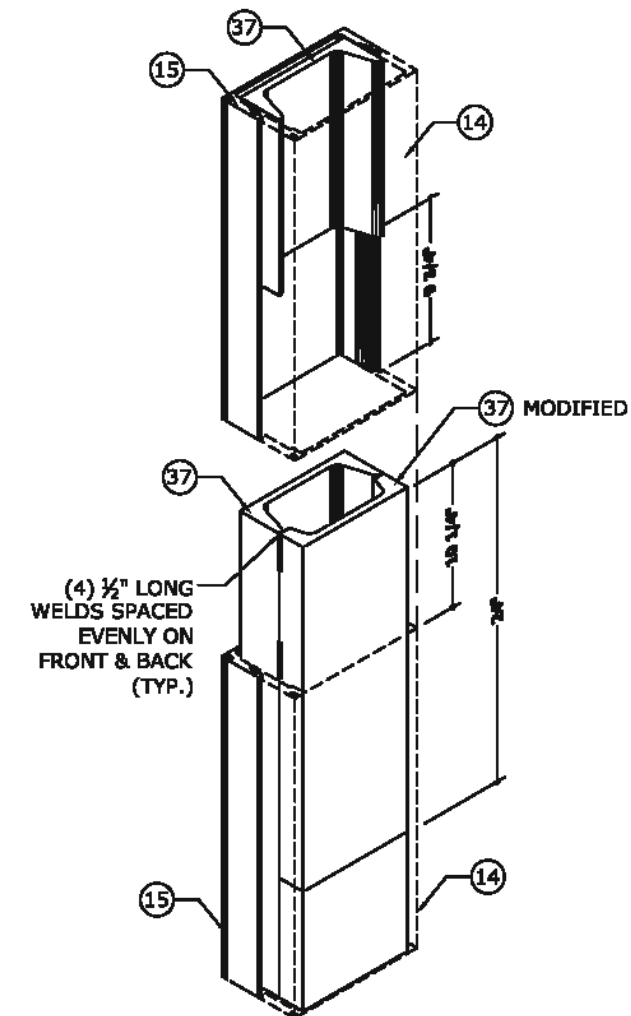
SPlice JOINT ASSEMBLY DETAILS



**SPlice JOINT ASSEMBLY
DETAIL FOR MULLIONS
TYPE "A", "B", "C", "C1"**



**SPlice JOINT ASSEMBLY
DETAIL FOR MULLIONS
TYPE "D", "E", "F", "F1"**



**SPlice JOINT ASSEMBLY
DETAIL FOR MULLIONS
TYPE "G", "H", "I", "I1"**

NOTE: IF REINFORCEMENT ON TWIN SPAN & MULTI-SPAN SYSTEMS IS NEEDED, PLEASE REINFORCE AS SHOWN ABOVE. MID-ANCHORS TO BE DESIGNED UNDER SITE SPECIFIC REQUIREMENTS. MID-ANCHOR MUST BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER

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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
FLORIDA STATE APPROVAL

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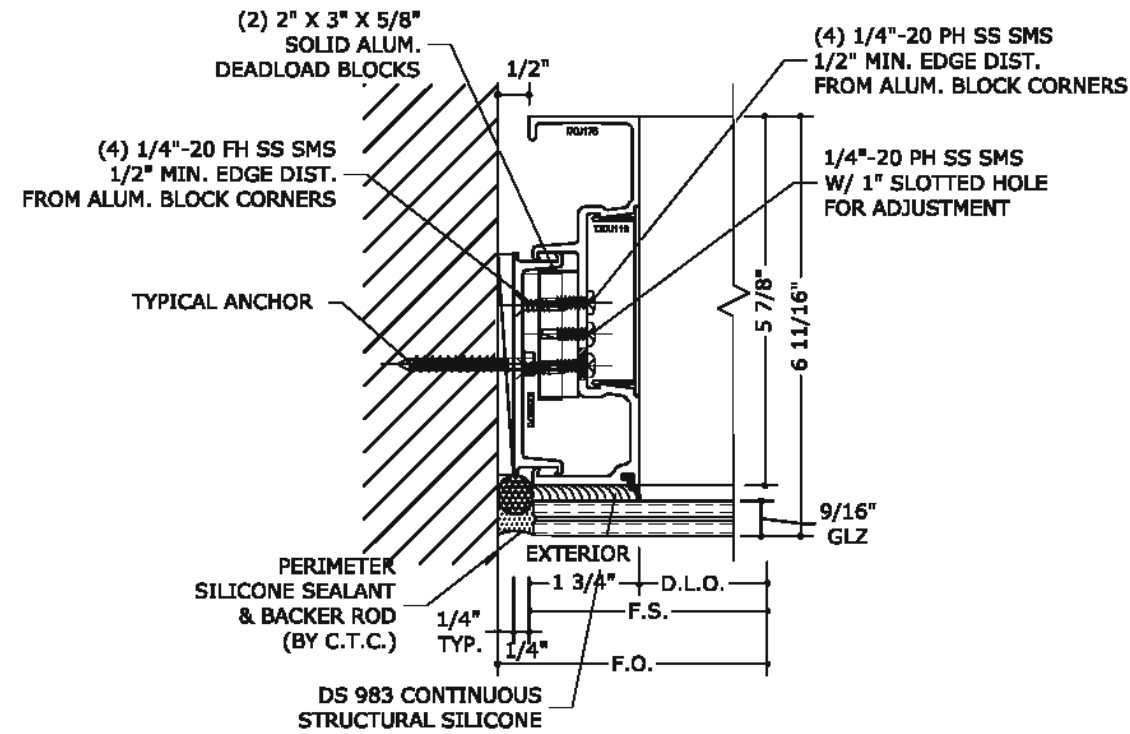
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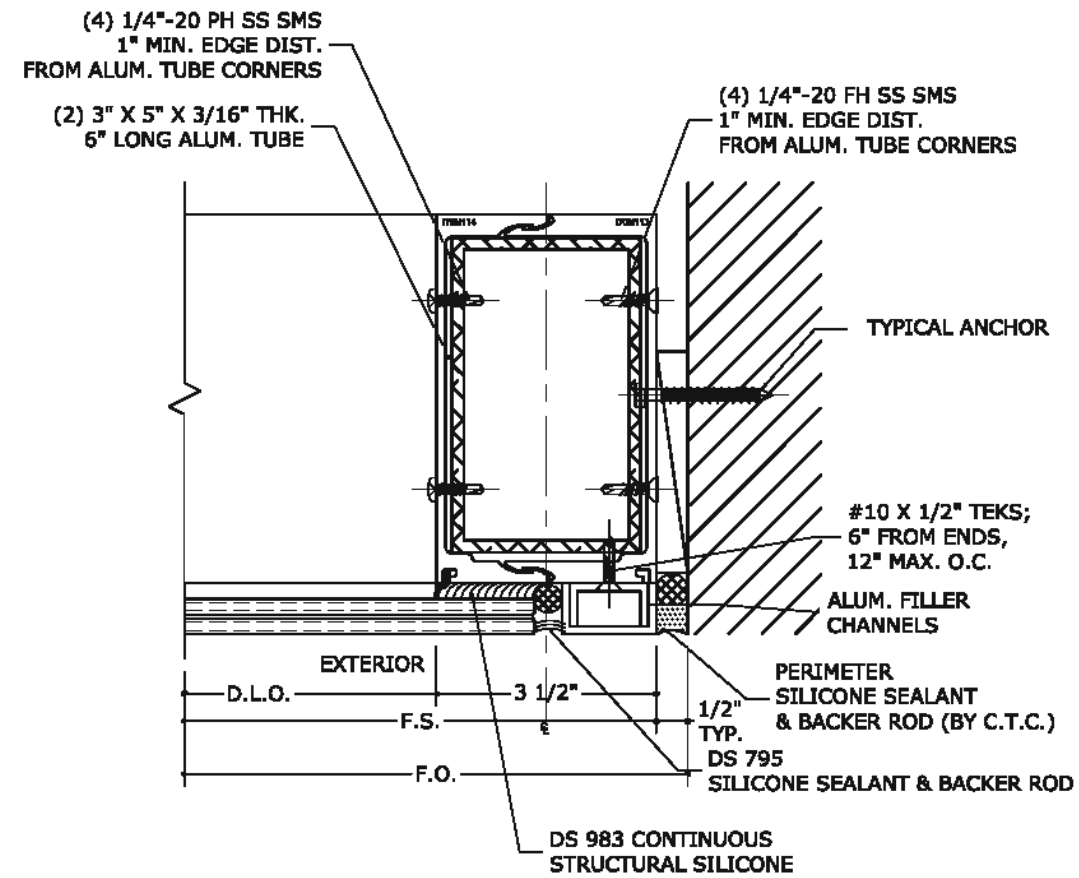
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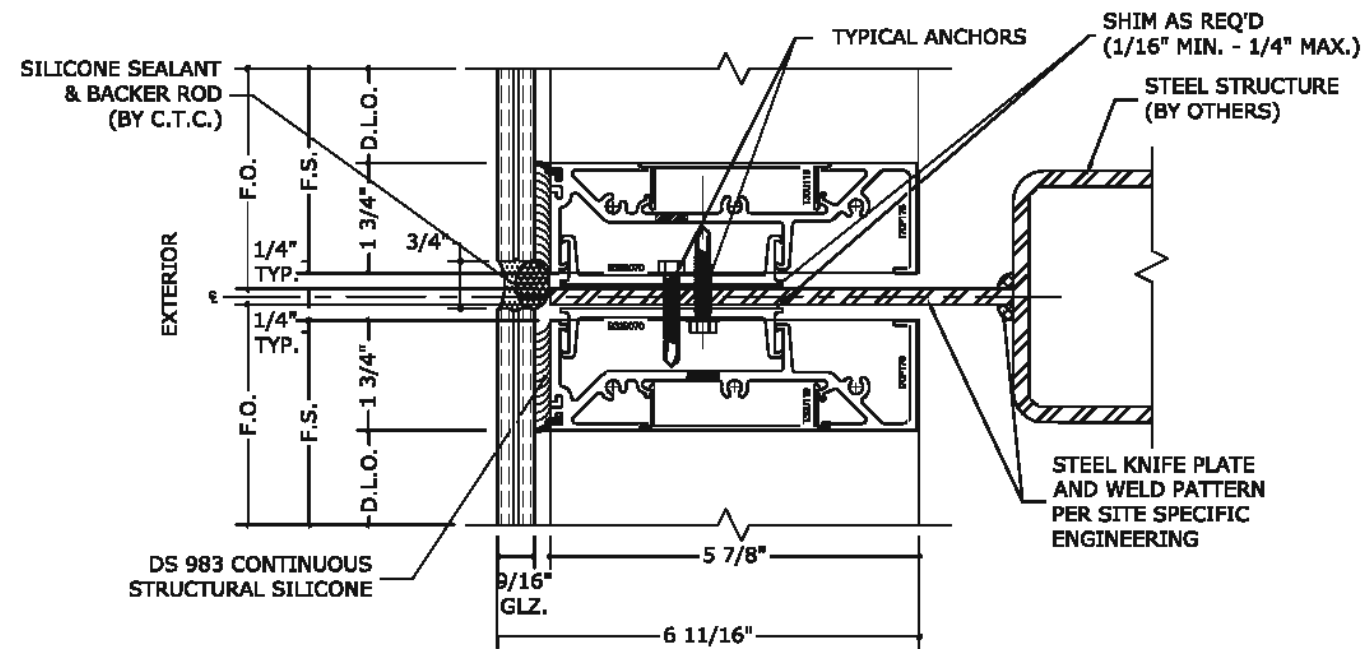
62



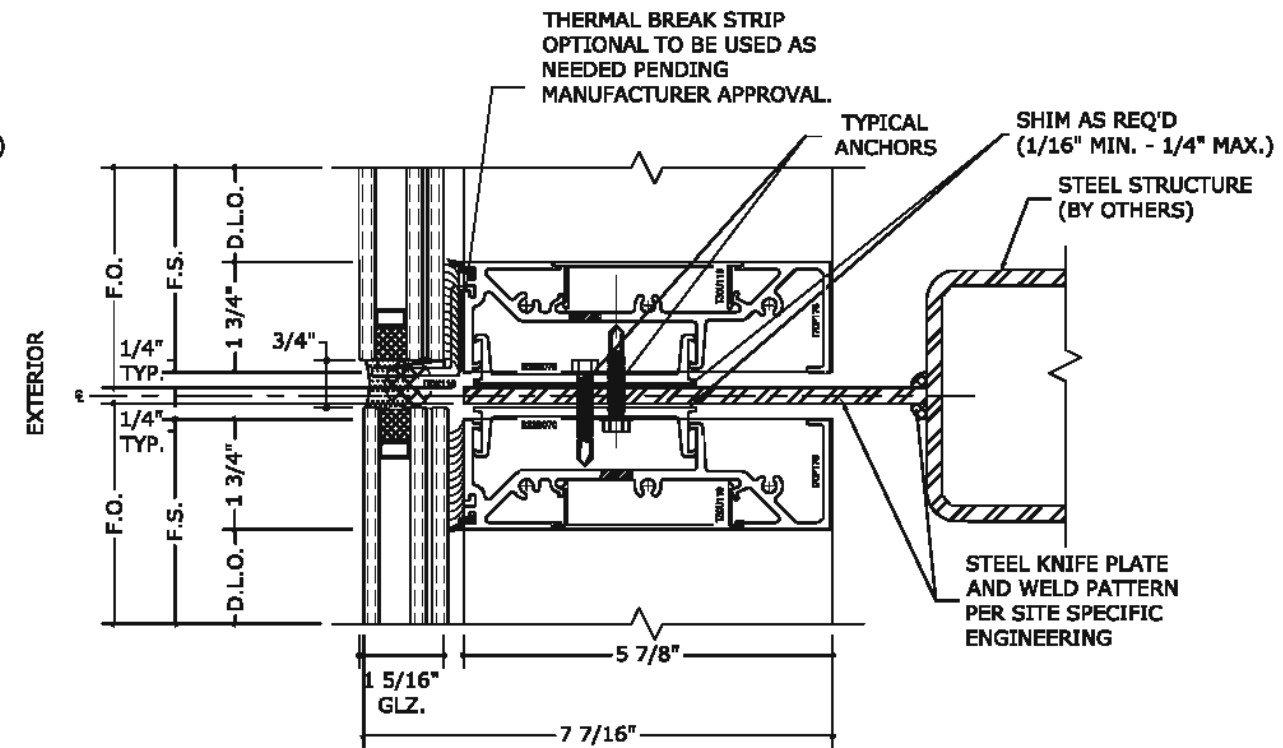
25 DEADLOAD BLOCK DETAIL AT JAMBS
SEE EXPLODED VIEW ON NEXT PAGE



26 DEADLOAD BLOCK DETAIL AT ALTERNATE JAMBS
SEE EXPLODED VIEW ON NEXT PAGE



27 KNIFE PLATE DETAIL



28 KNIFE PLATE DETAIL



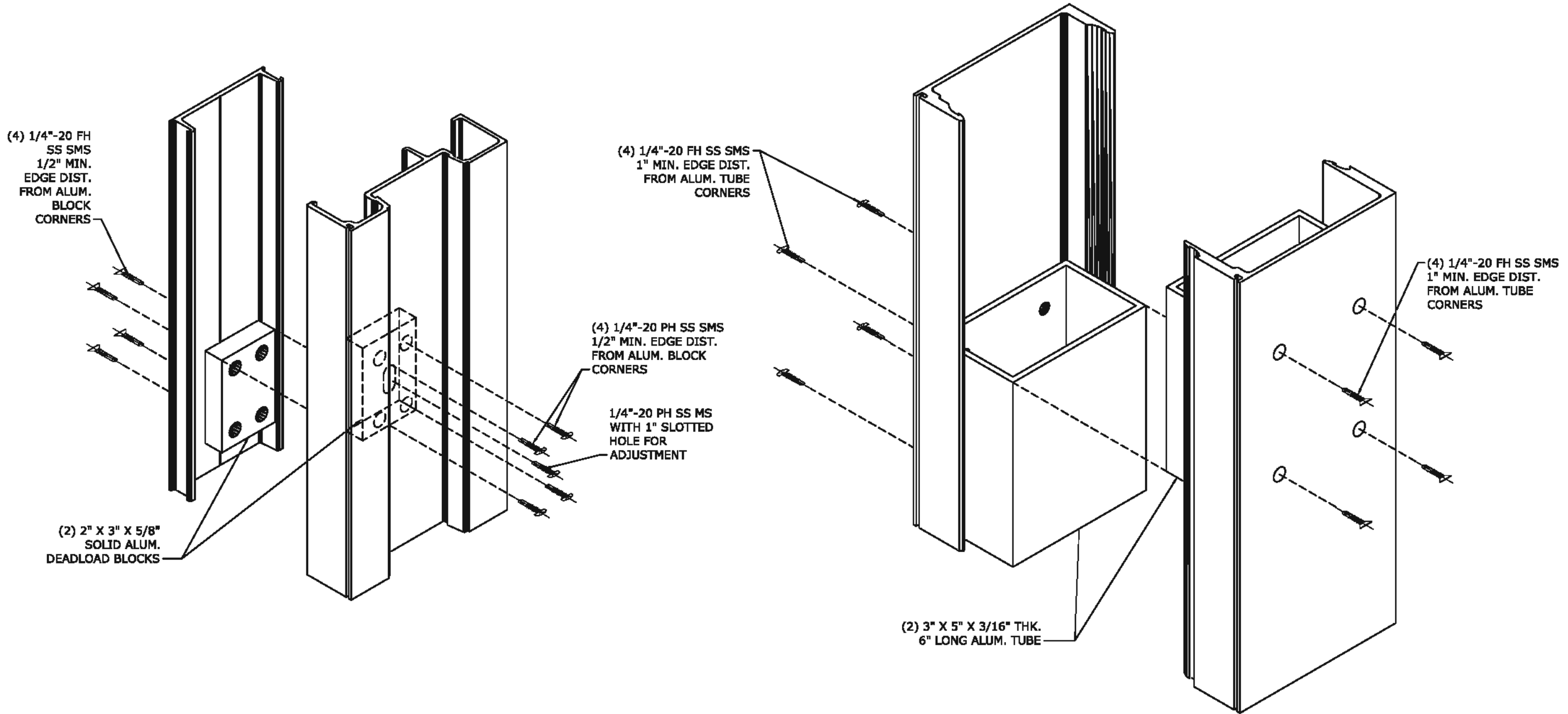
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DEADLOAD BLOCK DETAIL AT JAMBS

DEADLOAD BLOCK DETAIL AT ALTERNATE JAMBS

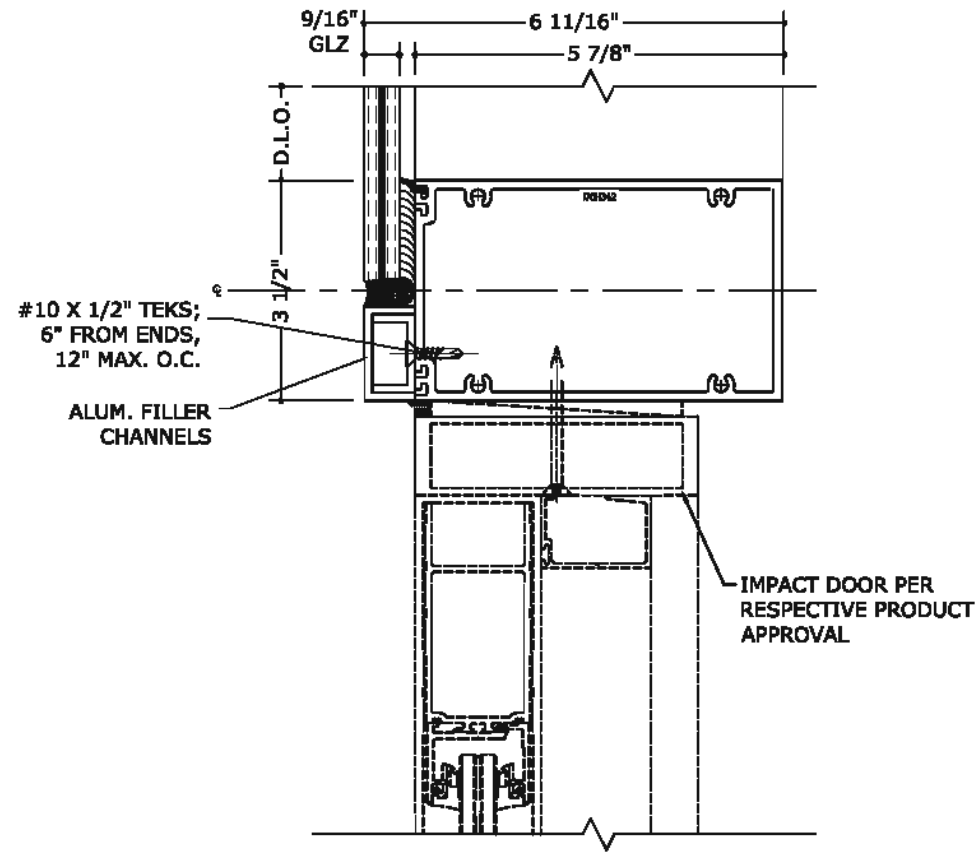
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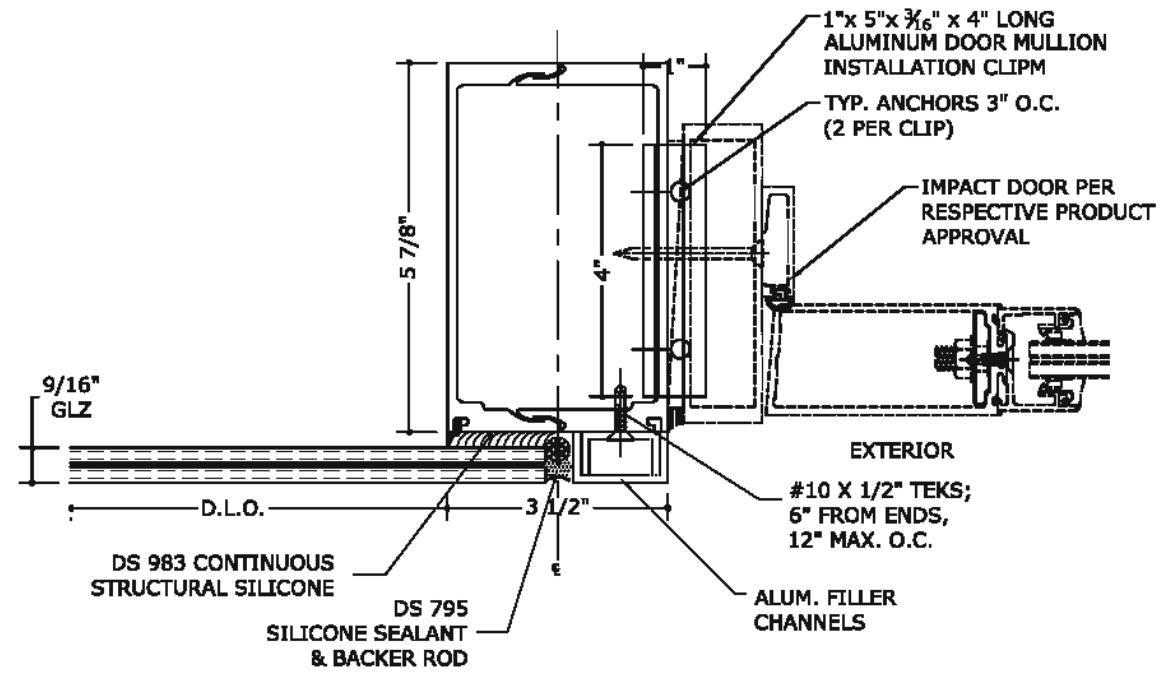
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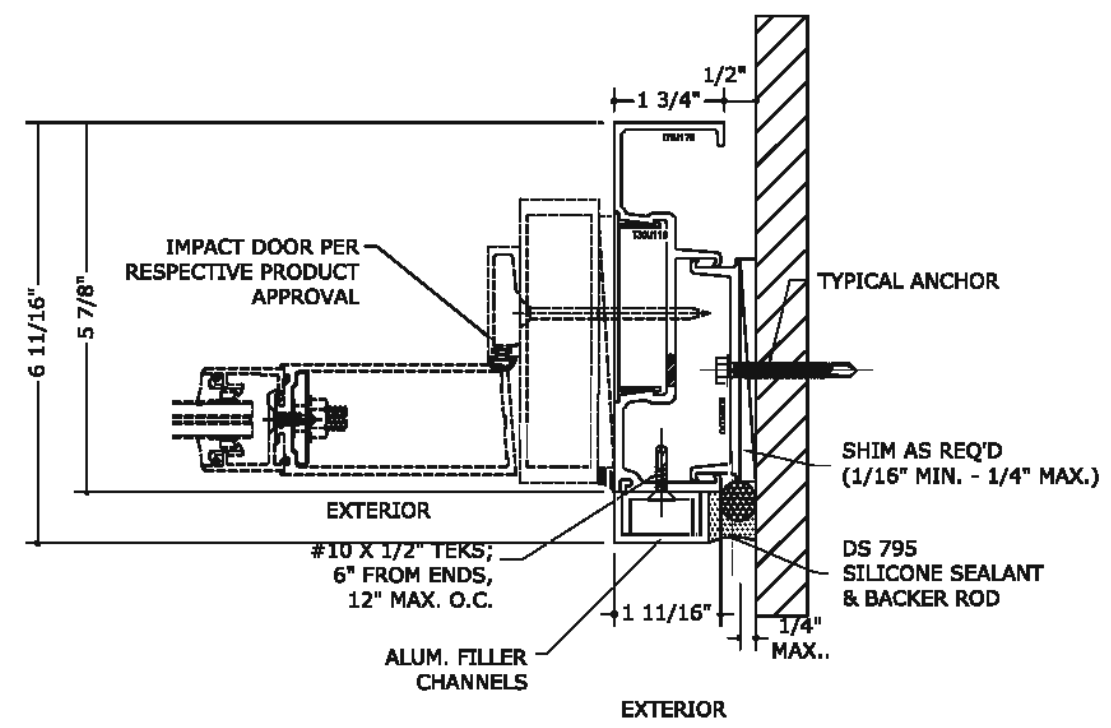
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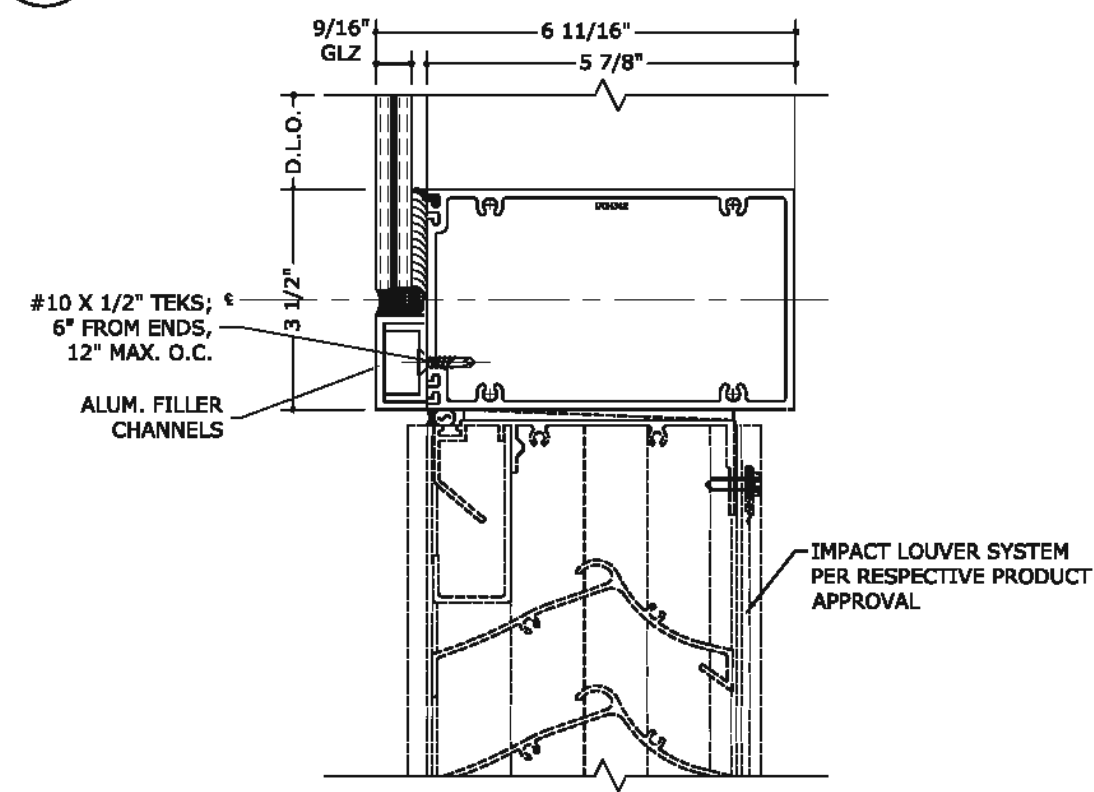
29 HORIZONTAL AT DOOR HEADER DETAIL



30 INTERMEDIATE VERTICAL DOOR JAMB DETAIL



31 VERTICAL AT DOOR JAMB DETAIL



32 HORIZONTAL AT LOUVER DETAIL



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SYSTEM 45 SG, 7 SG, 9 SG & 14 SG CURTAIN WALL SYSTEM INTEGRATED VERTICAL MULLION ALTERNATIVE DESIGN

THIS SHEET IS INTENDED TO PROVIDE APPROVAL FOR THE INTEGRATION OF CRAWFORD TRACEY CORPORATION SERIES 45SG, 7 SG, 9 SG AND 14 SG CURTAIN WALL SYSTEM

DETERMINATION OF GLASS TYPE, SIZE AND PRESSURE SHALL BE BASED OFF OF THE SMALLER SYSTEM THAT IT IS BEING INTEGRATED WITH.

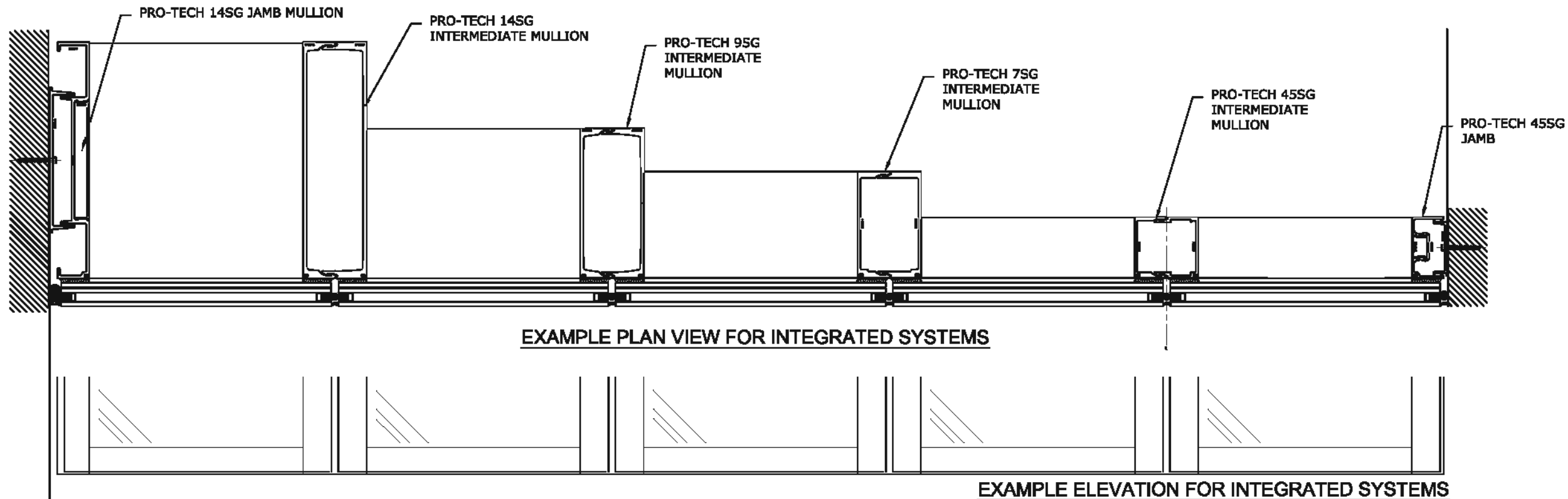
- FOR EXAMPLE: WHEN TRANSITIONING FROM THE 9 SG SYSTEM TO THE 7 SG SYSTEM THE GLASS TYPE, SIZE AND PRESSURE SHALL BE IN ACCORDANCE WITH THE PROTECH 7 SG SYSTEM

DETERMINATION OF MULLION TYPE, SIZE AND PRESSURE SHALL BE BASED OFF OF THE SYSTEM WHICH THE MULLION IS BEING INTEGRATED WITH.

- FOR EXAMPLE: WHEN TRANSITIONING FROM THE 9 SG SYSTEM TO THE 7 SG SYSTEM THE MULLION TYPE, SIZE AND PRESSURE IS PERMITTED TO BE IN ACCORDANCE WITH THE PROTECH 9 SG SYSTEM

DETERMINATION OF ANCHOR TYPE, QUANTITY AND PRESSURE SHALL BE BASED OFF OF THE LARGER SYSTEM THAT IT IS BEING INTEGRATED WITH.

- FOR EXAMPLE: WHEN TRANSITIONING FROM THE 9 SG SYSTEM TO THE 7 SG SYSTEM THE ANCHOR TYPE, QUANTITY AND PRESSURE SHALL BE IN ACCORDANCE WITH THE PROTECH 9 SG SYSTEM SIZES



EXAMPLE PLAN VIEW FOR INTEGRATED SYSTEMS

EXAMPLE ELEVATION FOR INTEGRATED SYSTEMS

NOTE:
INTEGRATION OF PRO-TECH SYSTEMS ARE NOT REQUIRED TO BE IN THE ORDER SHOWN ON THIS PAGE. IT IS PERMITTED FOR ANY OF THE PRO-TECH SYSTEMS TO BE INTEGRATED WITH EACH OTHER, REGARDLESS OF THE SIZE.

SYSTEM 45 SG, 7 SG, 9 SG & 14 SG CURTAIN WALL SYSTEM INTEGRATED HORIZONTAL MULLION ALTERNATIVE DESIGN

THIS SHEET IS INTENDED TO PROVIDE APPROVAL FOR THE INTEGRATION OF CRAWFORD TRACEY CORPORATION SERIES 45SG, 7 SG, 9 SG AND 14 SG CURTAIN WALL SYSTEM

DETERMINATION OF GLASS TYPE, SIZE AND PRESSURE SHALL BE BASED OFF OF THE MAXIMUM ALLOWABLE WIDTH OF THE HORIZONTAL MEMBER THAT IT IS BEING INTEGRATED INTO THE VERTICAL SYSTEM .

- FOR EXAMPLE: WHEN INCORPORATING THE 7 SG SYSTEM HORIZONTAL INTO THE 9 SG SYSTEM. THE GLASS TYPE, SIZE AND PRESSURE SHALL BE IN ACCORDANCE WITH THE MAXIMUM WIDTH OF THE HORIZONTAL FROM THE PROTECH 7 SG SYSTEM

DETERMINATION OF HORIZONTAL MULLION TYPE, SIZE AND PRESSURE SHALL BE BASED OFF OF THE HORIZONTAL MULLION'S RESPECTIVE PRODUCT APPROVAL

- FOR EXAMPLE: WHEN INCORPORATING THE 7 SG SYSTEM HORIZONTAL MULLION INTO THE 9 SG SYSTEM. THE 7 SG HORIZONTAL MULLION TYPE, SIZE AND PRESSURE IS LIMITED TO THE MAXIMUM SIZE AND PRESSURE RESPECTIVE TO THE HORIZONTAL MULLION MEMBER IN THE 7 SG PRODUCT APPROVAL

MAXIMUM HORIZONTAL MEMBER SIZE PER SYSTEM	
SYSTEM	WIDTH (in.)
45 SG	72 in, 120 in.
7 SG	72 in. , 60* in.
9 SG	72 in. , 60* in.
14 SG	94 5/8 in.

*=MAX WIDTH FOR MEMBER WITH SUNSHADE
_ = MEMBER IS A HORIZONTAL ORIENTED MULLION

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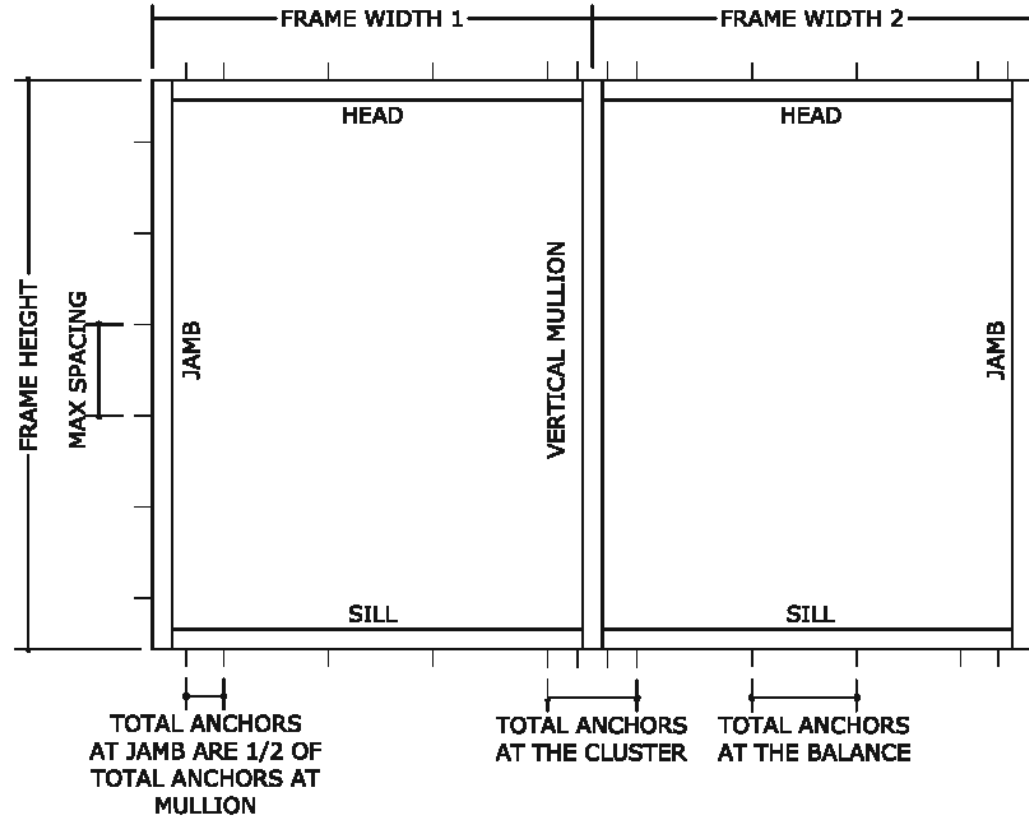
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FASTENER SCHEDULE



FASTENER SCHEDULE							
ANCHOR TYPE	ANCHOR DIAMETER	TYPE	MANUFACTURER	SUBSTRATE	MIN EMBEDMENT (IN)	MIN EDGE DISTANCE (IN)	SPACING (IN)
A	5/16"	ULTRACON ANCHOR	DEWALT	POURED CONCRETE 3000 PSI MIN	2	3-3/4	3-3/4" O.C.
B	5/16"-24	DRIL-FLEX HEX WASHER HEAD SELF DRILLING SCREW	DEWALT	16 GA MIN. STUD	FULL	1-1/2	4" O.C.
				1/8" ALUMINUM-6063-T6			
C	5/16"	ULTRACON ANCHOR OR LAG SCREW	DEWALT	2X WOOD BUCK G=0.55	1-1/2	1-1/2	4" O.C.

NOTE:
 - 1/4" Ø ANCHORS OF ANY KIND ARE PERMITTED UNDER SITE SPECIFIC CONDITIONS.
 - MODIFICATIONS TO THE ANCHORING WILL BE REQUIRED FOR THESE CONDITIONS AND SHALL BE DONE BY A PROFESSIONAL ENGINEER.

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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE A "MAX SHIM = 1/4"**

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE A																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)			
84	24	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.			
	30	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.			
	36	157	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.			
	42	141	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.			
	48	130	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.			
	54	121	27" O.C.	42" O.C.	160	27" O.C.	42" O.C.	160	27" O.C.	42" O.C.	160	27" O.C.	42" O.C.	160	27" O.C.	42" O.C.	160	27" O.C.	42" O.C.	160	27" O.C.	42" O.C.			
	60	57	30" O.C.	42" O.C.	115	30" O.C.	42" O.C.	160	30" O.C.	28" O.C.	160	30" O.C.	28" O.C.	160	30" O.C.	28" O.C.	160	30" O.C.	28" O.C.	160	30" O.C.	28" O.C.			
	66	55	33" O.C.	42" O.C.	111	33" O.C.	42" O.C.	160	33" O.C.	28" O.C.	160	33" O.C.	28" O.C.	160	33" O.C.	28" O.C.	160	33" O.C.	28" O.C.	160	33" O.C.	28" O.C.			
	72	54	36" O.C.	42" O.C.	108	36" O.C.	42" O.C.	160	24" O.C.	28" O.C.	160	24" O.C.	28" O.C.	160	24" O.C.	28" O.C.	160	24" O.C.	28" O.C.	160	24" O.C.	28" O.C.			
78	53	39" O.C.	42" O.C.	106	39" O.C.	42" O.C.	160	26" O.C.	28" O.C.	160	26" O.C.	28" O.C.	160	26" O.C.	28" O.C.	160	26" O.C.	28" O.C.	160	26" O.C.	28" O.C.				
96	24	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.			
	30	154	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.			
	36	133	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.			
	42	118	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.			
	48	108	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.			
	54	100	27" O.C.	48" O.C.	160	27" O.C.	48" O.C.	160	27" O.C.	48" O.C.	160	27" O.C.	48" O.C.	160	27" O.C.	48" O.C.	160	27" O.C.	48" O.C.	160	27" O.C.	48" O.C.			
	60	47	30" O.C.	48" O.C.	94	30" O.C.	48" O.C.	141	30" O.C.	32" O.C.	160	30" O.C.	24" O.C.	160	30" O.C.	24" O.C.	160	30" O.C.	24" O.C.	160	30" O.C.	24" O.C.			
	66	45	33" O.C.	48" O.C.	90	33" O.C.	48" O.C.	135	33" O.C.	32" O.C.	160	33" O.C.	24" O.C.	160	33" O.C.	24" O.C.	160	33" O.C.	24" O.C.	160	33" O.C.	24" O.C.			
	72	43	36" O.C.	48" O.C.	86	36" O.C.	48" O.C.	130	36" O.C.	32" O.C.	160	24" O.C.	24" O.C.	160	24" O.C.	24" O.C.	160	24" O.C.	24" O.C.	160	24" O.C.	24" O.C.			
78	42	39" O.C.	48" O.C.	84	39" O.C.	48" O.C.	126	26" O.C.	32" O.C.	160	26" O.C.	24" O.C.	160	26" O.C.	24" O.C.	160	26" O.C.	24" O.C.	160	26" O.C.	24" O.C.				
108	24	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.			
	30	134	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.			
	36	115	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.			
	42	102	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.			
	48	92	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.			
	54	85	27" O.C.	54" O.C.	160	27" O.C.	54" O.C.	160	27" O.C.	54" O.C.	160	27" O.C.	54" O.C.	160	27" O.C.	54" O.C.	160	27" O.C.	54" O.C.	160	27" O.C.	54" O.C.			
	60	40	30" O.C.	54" O.C.	80	30" O.C.	54" O.C.	120	30" O.C.	36" O.C.	160	30" O.C.	27" O.C.	160	30" O.C.	27" O.C.	160	30" O.C.	27" O.C.	160	30" O.C.	27" O.C.			
	66	37	33" O.C.	54" O.C.	75	33" O.C.	54" O.C.	113	33" O.C.	36" O.C.	151	33" O.C.	27" O.C.	160	33" O.C.	22" O.C.	160	33" O.C.	22" O.C.	160	33" O.C.	22" O.C.			
	72	36	36" O.C.	54" O.C.	72	36" O.C.	54" O.C.	108	36" O.C.	36" O.C.	144	36" O.C.	27" O.C.	160	24" O.C.	22" O.C.	160	24" O.C.	22" O.C.	160	24" O.C.	22" O.C.			
78	34	39" O.C.	54" O.C.	69	39" O.C.	54" O.C.	104	39" O.C.	36" O.C.	139	26" O.C.	27" O.C.	160	26" O.C.	22" O.C.	160	26" O.C.	22" O.C.	160	26" O.C.	22" O.C.				
120	24	144	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.			
	30	118	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.			
	36	101	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.			
	42	90	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.			
	48	81	24" O.C.	60" O.C.	160	24" O.C.	60" O.C.	160	24" O.C.	60" O.C.	160	24" O.C.	60" O.C.	160	24" O.C.	60" O.C.	160	24" O.C.	60" O.C.	160	24" O.C.	60" O.C.			
	54	74	27" O.C.	60" O.C.	149	27" O.C.	60" O.C.	160	27" O.C.	60" O.C.	160	27" O.C.	60" O.C.	160	27" O.C.	60" O.C.	160	27" O.C.	60" O.C.	160	27" O.C.	60" O.C.			
	60	34	30" O.C.	60" O.C.	69	30" O.C.	60" O.C.	104	30" O.C.	40" O.C.	138	30" O.C.	30" O.C.	160	30" O.C.	24" O.C.	160	30" O.C.	24" O.C.	160	30" O.C.	24" O.C.			
	66	32	33" O.C.	60" O.C.	65	33" O.C.	60" O.C.	97	33" O.C.	40" O.C.	130	33" O.C.	30" O.C.	160	33" O.C.	24" O.C.	160	33" O.C.	24" O.C.	160	33" O.C.	24" O.C.			
	72	30	36" O.C.	60" O.C.	61	36" O.C.	60" O.C.	92	36" O.C.	40" O.C.	123	36" O.C.	30" O.C.	154	24" O.C.	24" O.C.	160	24" O.C.	20" O.C.	160	24" O.C.	20" O.C.			
78	29	39" O.C.	60" O.C.	59	39" O.C.	60" O.C.	88	39" O.C.	40" O.C.	118	39" O.C.	30" O.C.	148	26" O.C.	24" O.C.	160	26" O.C.	20" O.C.	160	26" O.C.	20" O.C.				

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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE A "MAX SHIM = 1/4"**

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE A																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)			
132	24	130	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.			
	30	106	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.			
	36	91	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.			
	42	80	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.			
	48	72	24" O.C.	66" O.C.	144	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.			
	54	66	27" O.C.	66" O.C.	132	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.			
	60	30	30" O.C.	66" O.C.	61	30" O.C.	66" O.C.	91	30" O.C.	44" O.C.	122	30" O.C.	33" O.C.	152	30" O.C.	26" O.C.	160	30" O.C.	22" O.C.	160	30" O.C.	22" O.C.			
	66	28	33" O.C.	66" O.C.	57	33" O.C.	66" O.C.	85	33" O.C.	44" O.C.	114	33" O.C.	33" O.C.	143	33" O.C.	26" O.C.	160	33" O.C.	22" O.C.	160	33" O.C.	22" O.C.			
	72	27	36" O.C.	66" O.C.	54	36" O.C.	66" O.C.	81	36" O.C.	44" O.C.	108	36" O.C.	33" O.C.	135	36" O.C.	26" O.C.	160	24" O.C.	22" O.C.	160	24" O.C.	22" O.C.			
78	25	39" O.C.	66" O.C.	51	39" O.C.	66" O.C.	77	39" O.C.	44" O.C.	103	39" O.C.	33" O.C.	129	26" O.C.	26" O.C.	154	26" O.C.	22" O.C.	160	26" O.C.	19" O.C.				
144	24	118	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.			
	30	96	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.			
	36	82	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.			
	42	72	21" O.C.	72" O.C.	144	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.			
	48	65	24" O.C.	72" O.C.	130	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.			
	54	59	27" O.C.	72" O.C.	118	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.			
	60	27	30" O.C.	72" O.C.	54	30" O.C.	72" O.C.	82	30" O.C.	48" O.C.	109	30" O.C.	36" O.C.	136	30" O.C.	29" O.C.	160	30" O.C.	24" O.C.	160	30" O.C.	24" O.C.			
	66	25	33" O.C.	72" O.C.	51	33" O.C.	72" O.C.	76	33" O.C.	48" O.C.	102	33" O.C.	36" O.C.	127	33" O.C.	29" O.C.	153	33" O.C.	24" O.C.	160	33" O.C.	21" O.C.			
	72	24	36" O.C.	72" O.C.	48	36" O.C.	72" O.C.	72	36" O.C.	48" O.C.	96	36" O.C.	36" O.C.	120	36" O.C.	29" O.C.	144	36" O.C.	24" O.C.	160	24" O.C.	21" O.C.			
78	22	39" O.C.	72" O.C.	45	39" O.C.	72" O.C.	68	39" O.C.	48" O.C.	91	39" O.C.	36" O.C.	114	39" O.C.	29" O.C.	137	26" O.C.	24" O.C.	160	26" O.C.	21" O.C.				
156	24	108	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.			
	30	88	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.			
	36	75	18" O.C.	78" O.C.	150	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.			
	42	66	21" O.C.	78" O.C.	132	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.			
	48	59	24" O.C.	78" O.C.	118	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.			
	54	53	27" O.C.	78" O.C.	107	27" O.C.	78" O.C.	160	27" O.C.	78" O.C.	160	27" O.C.	78" O.C.	160	27" O.C.	78" O.C.	160	27" O.C.	78" O.C.	160	27" O.C.	78" O.C.			
	60	24	30" O.C.	78" O.C.	49	30" O.C.	78" O.C.	74	30" O.C.	52" O.C.	99	30" O.C.	39" O.C.	123	30" O.C.	31" O.C.	148	30" O.C.	26" O.C.	160	30" O.C.	22" O.C.			
	66	23	33" O.C.	78" O.C.	46	33" O.C.	78" O.C.	69	33" O.C.	52" O.C.	92	33" O.C.	39" O.C.	115	33" O.C.	31" O.C.	138	33" O.C.	26" O.C.	160	33" O.C.	22" O.C.			
	72	21	36" O.C.	78" O.C.	43	36" O.C.	78" O.C.	65	36" O.C.	52" O.C.	86	36" O.C.	39" O.C.	108	36" O.C.	31" O.C.	130	36" O.C.	26" O.C.	160	24" O.C.	20" O.C.			
78	20	39" O.C.	78" O.C.	41	39" O.C.	78" O.C.	61	39" O.C.	52" O.C.	82	39" O.C.	39" O.C.	102	39" O.C.	31" O.C.	123	39" O.C.	26" O.C.	160	26" O.C.	20" O.C.				
168	24	100	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.			
	30	81	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.			
	36	69	18" O.C.	84" O.C.	138	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.			
	42	60	21" O.C.	84" O.C.	121	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.			
	48	54	24" O.C.	84" O.C.	108	24" O.C.	84" O.C.	160	24" O.C.	84" O.C.	160	24" O.C.	84" O.C.	160	24" O.C.	84" O.C.	160	24" O.C.	84" O.C.	160	24" O.C.	84" O.C.			
	54	49	27" O.C.	84" O.C.	98	27" O.C.	84" O.C.	147	27" O.C.	84" O.C.	160	27" O.C.	84" O.C.	160	27" O.C.	84" O.C.	160	27" O.C.	84" O.C.	160	27" O.C.	84" O.C.			
	60	22	30" O.C.	84" O.C.	45	30" O.C.	84" O.C.	67	30" O.C.	56" O.C.	90	30" O.C.	42" O.C.	113	30" O.C.	34" O.C.	135	30" O.C.	28" O.C.	160	30" O.C.	21" O.C.			
	66	21	33" O.C.	84" O.C.	42	33" O.C.	84" O.C.	63	33" O.C.	56" O.C.	84	33" O.C.	42" O.C.	105	33" O.C.	34" O.C.	126	33" O.C.	28" O.C.	160	33" O.C.	21" O.C.			
	72	19	36" O.C.	84" O.C.	39	36" O.C.	84" O.C.	59	36" O.C.	56" O.C.	78	36" O.C.	42" O.C.	98	36" O.C.	34" O.C.	118	36" O.C.	28" O.C.	157	24" O.C.	21" O.C.			
78	18	39" O.C.	84" O.C.	37	39" O.C.	84" O.C.	55	39" O.C.	56" O.C.	74	39" O.C.	42" O.C.	93	39" O.C.	34" O.C.	111	39" O.C.	28" O.C.	148	26" O.C.	21" O.C.				



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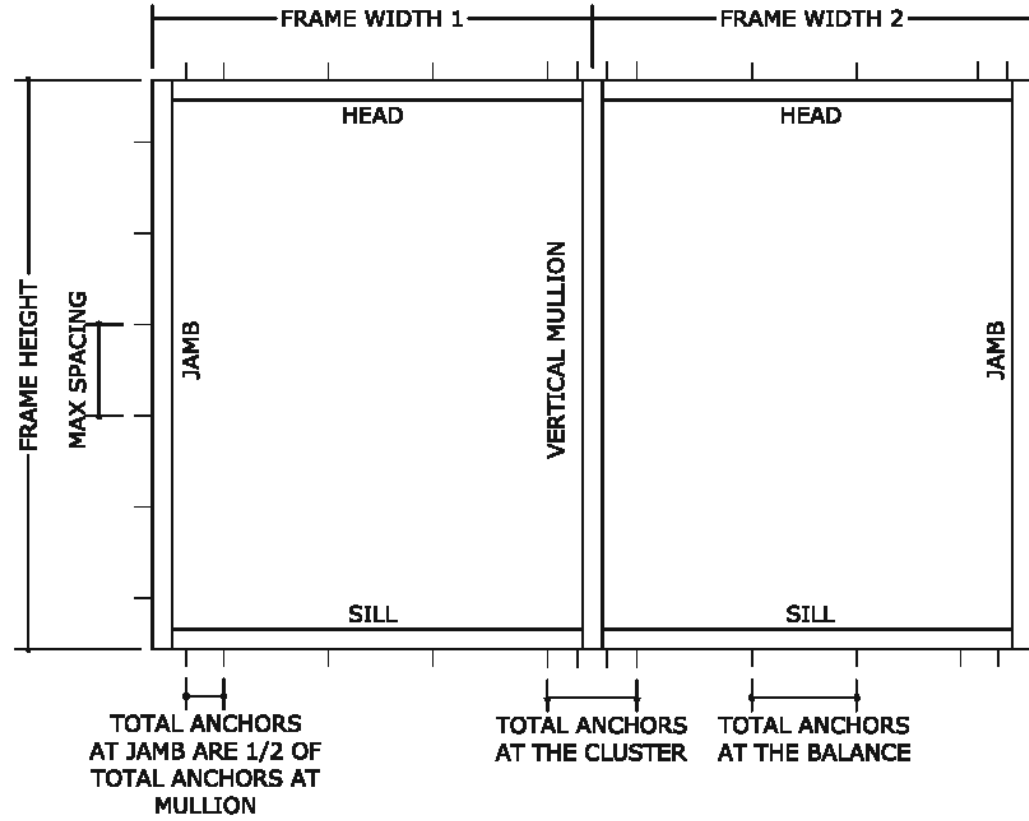
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FASTENER SCHEDULE



FASTENER SCHEDULE							
ANCHOR TYPE	ANCHOR DIAMETER	TYPE	MANUFACTURER	SUBSTRATE	MIN EMBEDMENT (IN)	MIN EDGE DISTANCE (IN)	SPACING (IN)
A	5/16"	ULTRACON ANCHOR	DEWALT	POURED CONCRETE 3000 PSI MIN	2	3-3/4	3-3/4" O.C.
B	5/16"-24	DRIL-FLEX HEX WASHER HEAD SELF DRILLING SCREW	DEWALT	16 GA MIN. STUD 1/8" ALUMINUM-6063-T6	FULL	1-1/2	4" O.C.
C	5/16"	ULTRACON ANCHOR OR LAG SCREW	DEWALT	2X WOOD BUCK G=0.55	1-1/2	1-1/2	4" O.C.

NOTE:
 - 1/4" Ø ANCHORS OF ANY KIND ARE PERMITTED UNDER SITE SPECIFIC CONDITIONS.
 - MODIFICATIONS TO THE ANCHORING WILL BE REQUIRED FOR THESE CONDITIONS AND SHALL BE DONE BY A PROFESSIONAL ENGINEER.

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 FLORIDA STATE APPROVAL

REMARKS	DATE	DRWN	CHKD
FBC 2020 UPDATE	08/06/20	JPC	AJP
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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE B "MAX SHIM = 1/4"**

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE B																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)			
84	24	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.			
	30	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.			
	36	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.			
	42	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.			
	48	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.			
	54	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.			
	60	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.			
	66	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.			
96	24	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.			
	30	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.			
	36	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.			
	42	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.			
	48	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.			
	54	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.			
	60	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.			
	66	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.			
108	24	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.			
	30	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.			
	36	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.			
	42	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.			
	48	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.			
	54	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.			
	60	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.			
	66	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.			
120	24	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.			
	30	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.			
	36	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.			
	42	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.			
	48	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.			
	54	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.			
	60	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.			
	66	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.			

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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE B "MAX SHIM = 1/4"**

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE B																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)			
132	24	117	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.
	30	96	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.
	36	82	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.
	42	72	21" O.C.	66" O.C.	145	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.
	48	65	24" O.C.	66" O.C.	130	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.
	54	59	27" O.C.	66" O.C.	119	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.	160	27" O.C.	66" O.C.
	60	27	30" O.C.	66" O.C.	55	30" O.C.	66" O.C.	82	30" O.C.	44" O.C.	110	30" O.C.	33" O.C.	138	30" O.C.	26" O.C.	160	30" O.C.	22" O.C.	160	30" O.C.	22" O.C.	160	30" O.C.	22" O.C.
	66	25	33" O.C.	66" O.C.	51	33" O.C.	66" O.C.	77	33" O.C.	44" O.C.	103	33" O.C.	33" O.C.	129	33" O.C.	26" O.C.	155	33" O.C.	22" O.C.	160	22" O.C.	19" O.C.	160	22" O.C.	19" O.C.
	72	24	36" O.C.	66" O.C.	48	36" O.C.	66" O.C.	73	36" O.C.	44" O.C.	97	36" O.C.	33" O.C.	122	36" O.C.	26" O.C.	146	24" O.C.	22" O.C.	160	24" O.C.	19" O.C.	160	24" O.C.	19" O.C.
78	23	39" O.C.	66" O.C.	46	39" O.C.	66" O.C.	69	39" O.C.	44" O.C.	93	39" O.C.	33" O.C.	116	26" O.C.	26" O.C.	139	26" O.C.	22" O.C.	160	26" O.C.	19" O.C.	160	26" O.C.	19" O.C.	
144	24	106	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.
	30	87	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.
	36	74	18" O.C.	72" O.C.	149	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.
	42	65	21" O.C.	72" O.C.	130	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.
	48	58	24" O.C.	72" O.C.	117	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.	160	24" O.C.	72" O.C.
	54	53	27" O.C.	72" O.C.	107	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.	160	27" O.C.	72" O.C.
	60	24	30" O.C.	72" O.C.	49	30" O.C.	72" O.C.	74	30" O.C.	48" O.C.	98	30" O.C.	36" O.C.	123	30" O.C.	29" O.C.	148	30" O.C.	24" O.C.	160	30" O.C.	21" O.C.	160	30" O.C.	21" O.C.
	66	23	33" O.C.	72" O.C.	46	33" O.C.	72" O.C.	69	33" O.C.	48" O.C.	92	33" O.C.	36" O.C.	115	33" O.C.	29" O.C.	138	33" O.C.	24" O.C.	160	22" O.C.	21" O.C.	160	22" O.C.	21" O.C.
	72	21	36" O.C.	72" O.C.	43	36" O.C.	72" O.C.	65	36" O.C.	48" O.C.	86	36" O.C.	36" O.C.	108	36" O.C.	29" O.C.	130	36" O.C.	24" O.C.	160	24" O.C.	18" O.C.	160	24" O.C.	18" O.C.
78	20	39" O.C.	72" O.C.	41	39" O.C.	72" O.C.	61	39" O.C.	48" O.C.	82	39" O.C.	36" O.C.	103	39" O.C.	29" O.C.	123	26" O.C.	24" O.C.	160	26" O.C.	18" O.C.	160	26" O.C.	18" O.C.	
156	24	97	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.
	30	79	15" O.C.	78" O.C.	159	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.
	36	68	18" O.C.	78" O.C.	136	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.
	42	59	21" O.C.	78" O.C.	119	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.	160	21" O.C.	78" O.C.
	48	53	24" O.C.	78" O.C.	106	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.	160	24" O.C.	78" O.C.
	54	48	27" O.C.	78" O.C.	97	27" O.C.	78" O.C.	145	27" O.C.	78" O.C.	160	27" O.C.	78" O.C.	160	27" O.C.	78" O.C.	160	27" O.C.	78" O.C.	160	27" O.C.	78" O.C.	160	27" O.C.	78" O.C.
	60	22	30" O.C.	78" O.C.	44	30" O.C.	78" O.C.	67	30" O.C.	52" O.C.	89	30" O.C.	39" O.C.	111	30" O.C.	31" O.C.	134	30" O.C.	26" O.C.	160	30" O.C.	20" O.C.	160	30" O.C.	20" O.C.
	66	20	33" O.C.	78" O.C.	41	33" O.C.	78" O.C.	62	33" O.C.	52" O.C.	83	33" O.C.	39" O.C.	104	33" O.C.	31" O.C.	124	33" O.C.	26" O.C.	160	22" O.C.	20" O.C.	160	22" O.C.	20" O.C.
	72	19	36" O.C.	78" O.C.	39	36" O.C.	78" O.C.	58	36" O.C.	52" O.C.	78	36" O.C.	39" O.C.	97	36" O.C.	31" O.C.	117	36" O.C.	26" O.C.	156	24" O.C.	20" O.C.	160	24" O.C.	20" O.C.
78	18	39" O.C.	78" O.C.	37	39" O.C.	78" O.C.	55	39" O.C.	52" O.C.	74	39" O.C.	39" O.C.	92	39" O.C.	31" O.C.	111	39" O.C.	26" O.C.	148	26" O.C.	20" O.C.	160	26" O.C.	20" O.C.	
168	24	90	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.
	30	73	15" O.C.	84" O.C.	147	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.
	36	62	18" O.C.	84" O.C.	125	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.
	42	54	21" O.C.	84" O.C.	109	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.	160	21" O.C.	84" O.C.
	48	48	24" O.C.	84" O.C.	97	24" O.C.	84" O.C.	146	24" O.C.	84" O.C.	160	24" O.C.	84" O.C.	160	24" O.C.	84" O.C.	160	24" O.C.	84" O.C.	160	24" O.C.	84" O.C.	160	24" O.C.	84" O.C.
	54	44	27" O.C.	84" O.C.	88	27" O.C.	84" O.C.	133	27" O.C.	84" O.C.	160	27" O.C.	84" O.C.	160	27" O.C.	84" O.C.	160	27" O.C.	84" O.C.	160	27" O.C.	84" O.C.	160	27" O.C.	84" O.C.
	60	20	30" O.C.	84" O.C.	40	30" O.C.	84" O.C.	61	30" O.C.	56" O.C.	81	30" O.C.	42" O.C.	102	30" O.C.	34" O.C.	122	30" O.C.	28" O.C.	160	30" O.C.	21" O.C.	160	30" O.C.	21" O.C.
	66	18	33" O.C.	84" O.C.	37	33" O.C.	84" O.C.	56	33" O.C.	56" O.C.	75	33" O.C.	42" O.C.	94	33" O.C.	34" O.C.	113	33" O.C.	28" O.C.	151	33" O.C.	21" O.C.	160	33" O.C.	21" O.C.
	72	17	36" O.C.	84" O.C.	35	36" O.C.	84" O.C.	53	36" O.C.	56" O.C.	71	36" O.C.	42" O.C.	88	36" O.C.	34" O.C.	106	36" O.C.	28" O.C.	142	24" O.C.	21" O.C.	160	24" O.C.	21" O.C.
78	16	39" O.C.	84" O.C.	33	39" O.C.	84" O.C.	50	39" O.C.	56" O.C.	67	39" O.C.	42" O.C.	84	39" O.C.	34" O.C.	100	39" O.C.	28" O.C.	134	26" O.C.	21" O.C.	160	26" O.C.	21" O.C.	

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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
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REMARKS	DATE	DRWN	CHKD
ERIC 2020 UPDATE	08/06/20	JPC	AJP

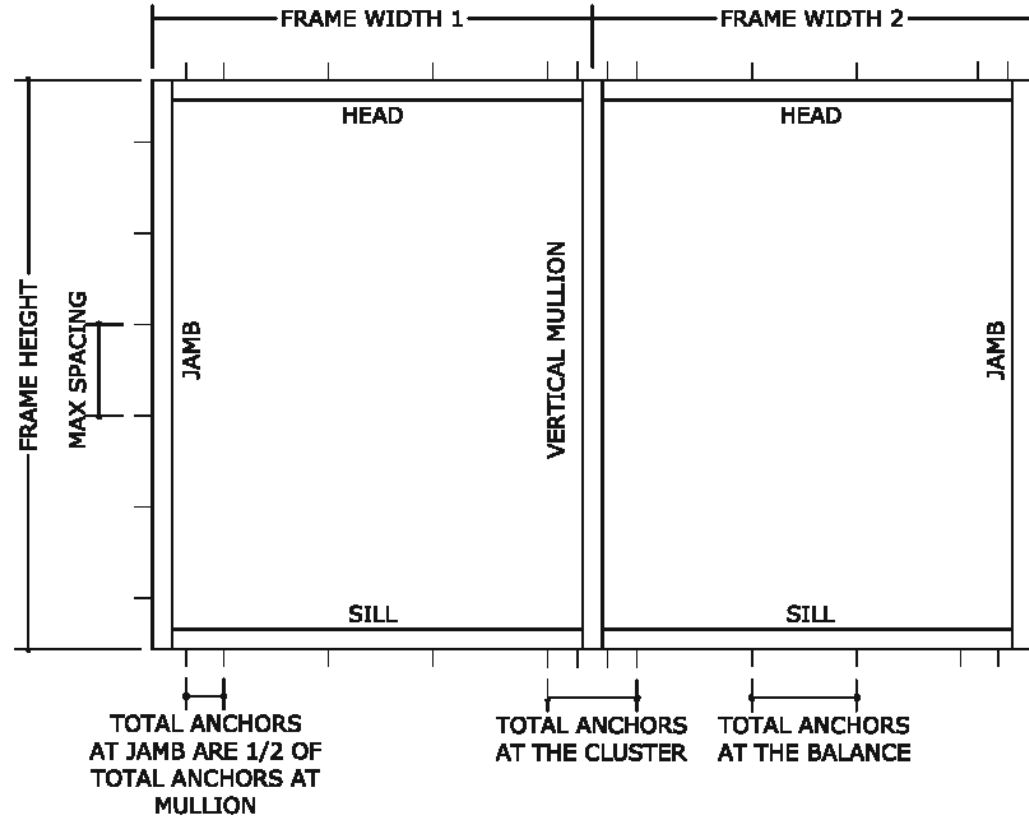
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FASTENER SCHEDULE



FASTENER SCHEDULE							
ANCHOR TYPE	ANCHOR DIAMETER	TYPE	MANUFACTURER	SUBSTRATE	MIN EMBEDMENT (IN)	MIN EDGE DISTANCE (IN)	SPACING (IN)
A	5/16"	ULTRACON ANCHOR	DEWALT	POURED CONCRETE 3000 PSI MIN	2	3-3/4	3-3/4" O.C.
B	5/16"-24	DRIL-FLEX HEX WASHER HEAD SELF DRILLING SCREW	DEWALT	16 GA MIN. STUD 1/8" ALUMINUM-6063-T6	FULL	1-1/2	4" O.C.
C	5/16"	ULTRACON ANCHOR OR LAG SCREW	DEWALT	2X WOOD BUCK G=0.55	1-1/2	1-1/2	4" O.C.

NOTE:
 - 1/4" Ø ANCHORS OF ANY KIND ARE PERMITTED UNDER SITE SPECIFIC CONDITIONS.
 - MODIFICATIONS TO THE ANCHORING WILL BE REQUIRED FOR THESE CONDITIONS AND SHALL BE DONE BY A PROFESSIONAL ENGINEER.

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FRC 2020 UPDATE	08/06/20	JPC	AJP
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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE C "MAX SHIM = 1/4"**

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE C																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)			
84	24	45	12" O.C.	42" O.C.	91	12" O.C.	42" O.C.	137	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.			
	30	38	15" O.C.	42" O.C.	76	15" O.C.	42" O.C.	114	15" O.C.	42" O.C.	152	15" O.C.	42" O.C.	160	15" O.C.	28" O.C.	160	15" O.C.	28" O.C.	160	15" O.C.	28" O.C.			
	36	33	18" O.C.	42" O.C.	66	18" O.C.	42" O.C.	99	18" O.C.	42" O.C.	132	18" O.C.	42" O.C.	160	18" O.C.	28" O.C.	160	18" O.C.	28" O.C.	160	18" O.C.	28" O.C.			
	42	29	21" O.C.	42" O.C.	59	21" O.C.	42" O.C.	89	21" O.C.	42" O.C.	119	21" O.C.	42" O.C.	149	21" O.C.	28" O.C.	160	21" O.C.	28" O.C.	160	21" O.C.	28" O.C.			
	48	27	24" O.C.	42" O.C.	54	24" O.C.	42" O.C.	82	24" O.C.	42" O.C.	109	24" O.C.	42" O.C.	137	24" O.C.	28" O.C.	160	24" O.C.	28" O.C.	160	24" O.C.	28" O.C.			
	54	25	27" O.C.	42" O.C.	51	27" O.C.	42" O.C.	76	27" O.C.	42" O.C.	102	27" O.C.	42" O.C.	128	27" O.C.	28" O.C.	153	27" O.C.	28" O.C.	160	27" O.C.	21" O.C.			
	60	12	30" O.C.	42" O.C.	24	30" O.C.	42" O.C.	36	30" O.C.	28" O.C.	48	30" O.C.	21" O.C.	60	30" O.C.	17" O.C.	73	30" O.C.	14" O.C.	97	30" O.C.	11" O.C.			
	66	11	33" O.C.	42" O.C.	23	33" O.C.	42" O.C.	35	33" O.C.	28" O.C.	46	33" O.C.	21" O.C.	58	33" O.C.	17" O.C.	70	33" O.C.	14" O.C.	93	33" O.C.	11" O.C.			
72	11	36" O.C.	42" O.C.	22	36" O.C.	42" O.C.	34	36" O.C.	28" O.C.	45	36" O.C.	21" O.C.	57	36" O.C.	17" O.C.	68	36" O.C.	14" O.C.	91	36" O.C.	11" O.C.				
78	11	39" O.C.	42" O.C.	22	39" O.C.	42" O.C.	33	39" O.C.	28" O.C.	44	39" O.C.	21" O.C.	56	39" O.C.	17" O.C.	67	39" O.C.	14" O.C.	89	39" O.C.	11" O.C.				
96	24	39	12" O.C.	48" O.C.	78	12" O.C.	48" O.C.	117	12" O.C.	48" O.C.	156	12" O.C.	48" O.C.	160	12" O.C.	32" O.C.	160	12" O.C.	32" O.C.	160	12" O.C.	32" O.C.			
	30	32	15" O.C.	48" O.C.	64	15" O.C.	48" O.C.	97	15" O.C.	48" O.C.	129	15" O.C.	48" O.C.	160	15" O.C.	32" O.C.	160	15" O.C.	32" O.C.	160	15" O.C.	32" O.C.			
	36	28	18" O.C.	48" O.C.	56	18" O.C.	48" O.C.	84	18" O.C.	48" O.C.	112	18" O.C.	48" O.C.	140	18" O.C.	32" O.C.	160	18" O.C.	32" O.C.	160	18" O.C.	32" O.C.			
	42	25	21" O.C.	48" O.C.	50	21" O.C.	48" O.C.	75	21" O.C.	48" O.C.	100	21" O.C.	48" O.C.	125	21" O.C.	32" O.C.	150	21" O.C.	32" O.C.	160	21" O.C.	24" O.C.			
	48	22	24" O.C.	48" O.C.	45	24" O.C.	48" O.C.	68	24" O.C.	48" O.C.	91	24" O.C.	48" O.C.	114	24" O.C.	32" O.C.	137	24" O.C.	32" O.C.	160	24" O.C.	24" O.C.			
	54	21	27" O.C.	48" O.C.	42	27" O.C.	48" O.C.	63	27" O.C.	48" O.C.	84	27" O.C.	48" O.C.	105	27" O.C.	32" O.C.	127	27" O.C.	32" O.C.	160	27" O.C.	24" O.C.			
	60	9	30" O.C.	48" O.C.	19	30" O.C.	48" O.C.	29	30" O.C.	32" O.C.	39	30" O.C.	24" O.C.	49	30" O.C.	19" O.C.	59	30" O.C.	16" O.C.	79	30" O.C.	12" O.C.			
	66	9	33" O.C.	48" O.C.	18	33" O.C.	48" O.C.	28	33" O.C.	32" O.C.	37	33" O.C.	24" O.C.	47	33" O.C.	19" O.C.	56	33" O.C.	16" O.C.	75	33" O.C.	12" O.C.			
72	9	36" O.C.	48" O.C.	18	36" O.C.	48" O.C.	27	36" O.C.	32" O.C.	36	36" O.C.	24" O.C.	45	36" O.C.	19" O.C.	54	36" O.C.	16" O.C.	73	36" O.C.	12" O.C.				
78	8	39" O.C.	48" O.C.	17	39" O.C.	48" O.C.	26	39" O.C.	32" O.C.	35	39" O.C.	24" O.C.	44	39" O.C.	19" O.C.	53	39" O.C.	16" O.C.	70	39" O.C.	12" O.C.				
108	24	34	12" O.C.	54" O.C.	68	12" O.C.	54" O.C.	102	12" O.C.	54" O.C.	137	12" O.C.	54" O.C.	160	12" O.C.	36" O.C.	160	12" O.C.	36" O.C.	160	12" O.C.	36" O.C.			
	30	28	15" O.C.	54" O.C.	56	15" O.C.	54" O.C.	84	15" O.C.	54" O.C.	113	15" O.C.	54" O.C.	141	15" O.C.	36" O.C.	160	15" O.C.	36" O.C.	160	15" O.C.	36" O.C.			
	36	24	18" O.C.	54" O.C.	48	18" O.C.	54" O.C.	73	18" O.C.	54" O.C.	97	18" O.C.	54" O.C.	121	18" O.C.	36" O.C.	146	18" O.C.	36" O.C.	160	18" O.C.	27" O.C.			
	42	21	21" O.C.	54" O.C.	43	21" O.C.	54" O.C.	64	21" O.C.	54" O.C.	86	21" O.C.	54" O.C.	107	21" O.C.	36" O.C.	129	21" O.C.	36" O.C.	160	21" O.C.	27" O.C.			
	48	19	24" O.C.	54" O.C.	39	24" O.C.	54" O.C.	58	24" O.C.	54" O.C.	78	24" O.C.	54" O.C.	97	24" O.C.	36" O.C.	117	24" O.C.	36" O.C.	156	24" O.C.	27" O.C.			
	54	18	27" O.C.	54" O.C.	36	27" O.C.	54" O.C.	54	27" O.C.	54" O.C.	72	27" O.C.	54" O.C.	90	27" O.C.	36" O.C.	108	27" O.C.	36" O.C.	144	27" O.C.	27" O.C.			
	60	8	30" O.C.	54" O.C.	16	30" O.C.	54" O.C.	25	30" O.C.	36" O.C.	33	30" O.C.	27" O.C.	42	30" O.C.	22" O.C.	50	30" O.C.	18" O.C.	67	30" O.C.	14" O.C.			
	66	7	33" O.C.	54" O.C.	15	33" O.C.	54" O.C.	23	33" O.C.	36" O.C.	31	33" O.C.	27" O.C.	39	33" O.C.	22" O.C.	47	33" O.C.	18" O.C.	63	33" O.C.	14" O.C.			
72	7	36" O.C.	54" O.C.	15	36" O.C.	54" O.C.	22	36" O.C.	36" O.C.	30	36" O.C.	27" O.C.	38	36" O.C.	22" O.C.	45	36" O.C.	18" O.C.	60	36" O.C.	14" O.C.				
78	7	39" O.C.	54" O.C.	14	39" O.C.	54" O.C.	21	39" O.C.	36" O.C.	29	39" O.C.	27" O.C.	36	39" O.C.	22" O.C.	43	39" O.C.	18" O.C.	58	39" O.C.	14" O.C.				
120	24	30	12" O.C.	60" O.C.	60	12" O.C.	60" O.C.	91	12" O.C.	60" O.C.	121	12" O.C.	60" O.C.	152	12" O.C.	40" O.C.	160	12" O.C.	40" O.C.	160	12" O.C.	40" O.C.			
	30	25	15" O.C.	60" O.C.	50	15" O.C.	60" O.C.	75	15" O.C.	60" O.C.	100	15" O.C.	60" O.C.	125	15" O.C.	40" O.C.	150	15" O.C.	40" O.C.	160	15" O.C.	30" O.C.			
	36	21	18" O.C.	60" O.C.	42	18" O.C.	60" O.C.	64	18" O.C.	60" O.C.	85	18" O.C.	60" O.C.	107	18" O.C.	40" O.C.	128	18" O.C.	40" O.C.	160	18" O.C.	30" O.C.			
	42	18	21" O.C.	60" O.C.	37	21" O.C.	60" O.C.	56	21" O.C.	60" O.C.	75	21" O.C.	60" O.C.	94	21" O.C.	40" O.C.	113	21" O.C.	40" O.C.	151	21" O.C.	30" O.C.			
	48	17	24" O.C.	60" O.C.	34	24" O.C.	60" O.C.	51	24" O.C.	60" O.C.	68	24" O.C.	60" O.C.	85	24" O.C.	40" O.C.	102	24" O.C.	40" O.C.	137	24" O.C.	30" O.C.			
	54	15	27" O.C.	60" O.C.	31	27" O.C.	60" O.C.	47	27" O.C.	60" O.C.	62	27" O.C.	60" O.C.	78	27" O.C.	40" O.C.	94	27" O.C.	40" O.C.	125	27" O.C.	30" O.C.			
	60	7	30" O.C.	60" O.C.	14	30" O.C.	60" O.C.	21	30" O.C.	40" O.C.	29	30" O.C.	30" O.C.	36	30" O.C.	24" O.C.	43	30" O.C.	20" O.C.	58	30" O.C.	15" O.C.			
	66	6	33" O.C.	60" O.C.	13	33" O.C.	60" O.C.	20	33" O.C.	40" O.C.	27	33" O.C.	30" O.C.	34	33" O.C.	24" O.C.	41	33" O.C.	20" O.C.	54	33" O.C.	15" O.C.			
72	6	36" O.C.	60" O.C.	13	36" O.C.	60" O.C.	19	36" O.C.	40" O.C.	26	36" O.C.	30" O.C.	32	36" O.C.	24" O.C.	39	36" O.C.	20" O.C.	52	36" O.C.	15" O.C.				
78	6	39" O.C.	60" O.C.	12	39" O.C.	60" O.C.	18	39" O.C.	40" O.C.	24	39" O.C.	30" O.C.	31	39" O.C.	24" O.C.	37	39" O.C.	20" O.C.	49	39" O.C.	15" O.C.				

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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE C "MAX SHIM = 1/4"**

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE C																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)
132	24	27	12" O.C.	66" O.C.	54	12" O.C.	66" O.C.	82	12" O.C.	66" O.C.	109	12" O.C.	66" O.C.	137	12" O.C.	44" O.C.	160	12" O.C.	44" O.C.	160	12" O.C.	44" O.C.			
	30	22	15" O.C.	66" O.C.	44	15" O.C.	66" O.C.	67	15" O.C.	66" O.C.	89	15" O.C.	66" O.C.	112	15" O.C.	44" O.C.	134	15" O.C.	44" O.C.	160	15" O.C.	33" O.C.			
	36	19	18" O.C.	66" O.C.	38	18" O.C.	66" O.C.	57	18" O.C.	66" O.C.	76	18" O.C.	66" O.C.	96	18" O.C.	44" O.C.	115	18" O.C.	44" O.C.	153	12" O.C.	33" O.C.			
	42	16	21" O.C.	66" O.C.	33	21" O.C.	66" O.C.	50	21" O.C.	66" O.C.	67	21" O.C.	66" O.C.	84	21" O.C.	44" O.C.	101	14" O.C.	44" O.C.	135	11" O.C.	33" O.C.			
	48	15	24" O.C.	66" O.C.	30	24" O.C.	66" O.C.	45	24" O.C.	66" O.C.	60	24" O.C.	66" O.C.	76	16" O.C.	44" O.C.	91	16" O.C.	44" O.C.	121	12" O.C.	33" O.C.			
	54	13	27" O.C.	66" O.C.	27	27" O.C.	66" O.C.	41	27" O.C.	66" O.C.	55	18" O.C.	66" O.C.	69	18" O.C.	44" O.C.	83	14" O.C.	44" O.C.	111	11" O.C.	33" O.C.			
	60	6	30" O.C.	66" O.C.	12	30" O.C.	66" O.C.	19	30" O.C.	44" O.C.	25	30" O.C.	33" O.C.	32	30" O.C.	26" O.C.	38	30" O.C.	22" O.C.	51	20" O.C.	17" O.C.			
	66	6	33" O.C.	66" O.C.	12	33" O.C.	66" O.C.	18	33" O.C.	44" O.C.	24	33" O.C.	33" O.C.	30	33" O.C.	26" O.C.	36	33" O.C.	22" O.C.	48	22" O.C.	17" O.C.			
	72	5	36" O.C.	66" O.C.	11	36" O.C.	66" O.C.	17	36" O.C.	44" O.C.	22	36" O.C.	33" O.C.	28	36" O.C.	26" O.C.	34	24" O.C.	22" O.C.	45	24" O.C.	17" O.C.			
78	5	39" O.C.	66" O.C.	10	39" O.C.	66" O.C.	16	39" O.C.	44" O.C.	21	39" O.C.	33" O.C.	27	26" O.C.	26" O.C.	32	26" O.C.	22" O.C.	43	20" O.C.	17" O.C.				
144	24	24	12" O.C.	72" O.C.	49	12" O.C.	72" O.C.	74	12" O.C.	72" O.C.	99	12" O.C.	72" O.C.	124	12" O.C.	48" O.C.	149	12" O.C.	48" O.C.	160	12" O.C.	36" O.C.			
	30	20	15" O.C.	72" O.C.	40	15" O.C.	72" O.C.	61	15" O.C.	72" O.C.	81	15" O.C.	72" O.C.	101	15" O.C.	48" O.C.	122	15" O.C.	48" O.C.	160	15" O.C.	36" O.C.			
	36	17	18" O.C.	72" O.C.	34	18" O.C.	72" O.C.	52	18" O.C.	72" O.C.	69	18" O.C.	72" O.C.	86	18" O.C.	48" O.C.	104	18" O.C.	48" O.C.	139	12" O.C.	36" O.C.			
	42	15	21" O.C.	72" O.C.	30	21" O.C.	72" O.C.	45	21" O.C.	72" O.C.	61	21" O.C.	72" O.C.	76	21" O.C.	48" O.C.	91	14" O.C.	48" O.C.	122	14" O.C.	36" O.C.			
	48	13	24" O.C.	72" O.C.	27	24" O.C.	72" O.C.	41	24" O.C.	72" O.C.	54	24" O.C.	72" O.C.	68	24" O.C.	48" O.C.	82	16" O.C.	48" O.C.	109	12" O.C.	36" O.C.			
	54	12	27" O.C.	72" O.C.	24	27" O.C.	72" O.C.	37	27" O.C.	72" O.C.	49	27" O.C.	72" O.C.	62	18" O.C.	48" O.C.	74	18" O.C.	48" O.C.	99	14" O.C.	36" O.C.			
	60	5	30" O.C.	72" O.C.	11	30" O.C.	72" O.C.	17	30" O.C.	48" O.C.	23	30" O.C.	36" O.C.	28	30" O.C.	29" O.C.	34	30" O.C.	24" O.C.	46	20" O.C.	18" O.C.			
	66	5	33" O.C.	72" O.C.	10	33" O.C.	72" O.C.	16	33" O.C.	48" O.C.	21	33" O.C.	36" O.C.	26	33" O.C.	29" O.C.	32	33" O.C.	24" O.C.	43	22" O.C.	18" O.C.			
	72	5	36" O.C.	72" O.C.	10	36" O.C.	72" O.C.	15	36" O.C.	48" O.C.	20	36" O.C.	36" O.C.	25	36" O.C.	29" O.C.	30	36" O.C.	24" O.C.	40	24" O.C.	18" O.C.			
78	4	39" O.C.	72" O.C.	9	39" O.C.	72" O.C.	14	39" O.C.	48" O.C.	19	39" O.C.	36" O.C.	24	39" O.C.	29" O.C.	28	26" O.C.	24" O.C.	38	26" O.C.	18" O.C.				
156	24	22	12" O.C.	78" O.C.	45	12" O.C.	78" O.C.	68	12" O.C.	78" O.C.	91	12" O.C.	78" O.C.	114	12" O.C.	52" O.C.	137	12" O.C.	52" O.C.	160	12" O.C.	39" O.C.			
	30	18	15" O.C.	78" O.C.	37	15" O.C.	78" O.C.	55	15" O.C.	78" O.C.	74	15" O.C.	78" O.C.	93	15" O.C.	52" O.C.	111	15" O.C.	52" O.C.	149	15" O.C.	39" O.C.			
	36	15	18" O.C.	78" O.C.	31	18" O.C.	78" O.C.	47	18" O.C.	78" O.C.	63	18" O.C.	78" O.C.	79	18" O.C.	52" O.C.	95	18" O.C.	52" O.C.	127	12" O.C.	39" O.C.			
	42	13	21" O.C.	78" O.C.	27	21" O.C.	78" O.C.	41	21" O.C.	78" O.C.	55	21" O.C.	78" O.C.	69	21" O.C.	52" O.C.	83	21" O.C.	52" O.C.	111	14" O.C.	39" O.C.			
	48	12	24" O.C.	78" O.C.	24	24" O.C.	78" O.C.	37	24" O.C.	78" O.C.	49	24" O.C.	78" O.C.	62	24" O.C.	52" O.C.	74	16" O.C.	52" O.C.	99	16" O.C.	39" O.C.			
	54	11	27" O.C.	78" O.C.	22	27" O.C.	78" O.C.	33	27" O.C.	78" O.C.	45	27" O.C.	78" O.C.	56	18" O.C.	52" O.C.	67	18" O.C.	52" O.C.	90	14" O.C.	39" O.C.			
	60	5	30" O.C.	78" O.C.	10	30" O.C.	78" O.C.	15	30" O.C.	52" O.C.	20	30" O.C.	39" O.C.	26	30" O.C.	31" O.C.	31	30" O.C.	26" O.C.	41	30" O.C.	20" O.C.			
	66	4	33" O.C.	78" O.C.	9	33" O.C.	78" O.C.	14	33" O.C.	52" O.C.	19	33" O.C.	39" O.C.	24	33" O.C.	31" O.C.	29	33" O.C.	26" O.C.	38	22" O.C.	20" O.C.			
	72	4	36" O.C.	78" O.C.	9	36" O.C.	78" O.C.	13	36" O.C.	52" O.C.	18	36" O.C.	39" O.C.	22	36" O.C.	31" O.C.	27	36" O.C.	26" O.C.	36	24" O.C.	20" O.C.			
78	4	39" O.C.	78" O.C.	8	39" O.C.	78" O.C.	12	39" O.C.	52" O.C.	17	39" O.C.	39" O.C.	21	39" O.C.	31" O.C.	25	39" O.C.	26" O.C.	34	26" O.C.	20" O.C.				
168	24	21	12" O.C.	84" O.C.	42	12" O.C.	84" O.C.	63	12" O.C.	84" O.C.	84	12" O.C.	84" O.C.	105	12" O.C.	56" O.C.	126	12" O.C.	56" O.C.	160	12" O.C.	42" O.C.			
	30	17	15" O.C.	84" O.C.	34	15" O.C.	84" O.C.	51	15" O.C.	84" O.C.	68	15" O.C.	84" O.C.	85	15" O.C.	56" O.C.	103	15" O.C.	56" O.C.	137	15" O.C.	42" O.C.			
	36	14	18" O.C.	84" O.C.	29	18" O.C.	84" O.C.	43	18" O.C.	84" O.C.	58	18" O.C.	84" O.C.	73	18" O.C.	56" O.C.	87	18" O.C.	56" O.C.	116	18" O.C.	42" O.C.			
	42	12	21" O.C.	84" O.C.	25	21" O.C.	84" O.C.	38	21" O.C.	84" O.C.	51	21" O.C.	84" O.C.	63	21" O.C.	56" O.C.	76	21" O.C.	56" O.C.	102	14" O.C.	42" O.C.			
	48	11	24" O.C.	84" O.C.	22	24" O.C.	84" O.C.	34	24" O.C.	84" O.C.	45	24" O.C.	84" O.C.	57	24" O.C.	56" O.C.	68	24" O.C.	56" O.C.	91	16" O.C.	42" O.C.			
	54	10	27" O.C.	84" O.C.	20	27" O.C.	84" O.C.	31	27" O.C.	84" O.C.	41	27" O.C.	84" O.C.	51	27" O.C.	56" O.C.	62	18" O.C.	56" O.C.	82	14" O.C.	42" O.C.			
	60	4	30" O.C.	84" O.C.	9	30" O.C.	84" O.C.	14	30" O.C.	56" O.C.	19	30" O.C.	42" O.C.	23	30" O.C.	34" O.C.	28	30" O.C.	28" O.C.	38	30" O.C.	21" O.C.			
	66	4	33" O.C.	84" O.C.	8	33" O.C.	84" O.C.	13	33" O.C.	56" O.C.	17	33" O.C.	42" O.C.	22	33" O.C.	34" O.C.	26	33" O.C.	28" O.C.	35	33" O.C.	21" O.C.			
	72	4	36" O.C.	84" O.C.	8	36" O.C.	84" O.C.	12	36" O.C.	56" O.C.	16	36" O.C.	42" O.C.	20	36" O.C.	34" O.C.	24	36" O.C.	28" O.C.	33	24" O.C.	21" O.C.			
78	3	39" O.C.	84" O.C.	7	39" O.C.	84" O.C.	11	39" O.C.	56" O.C.	15	39" O.C.	42" O.C.	19	39" O.C.	34" O.C.	23	39" O.C.	28" O.C.	31	26" O.C.	21" O.C.				

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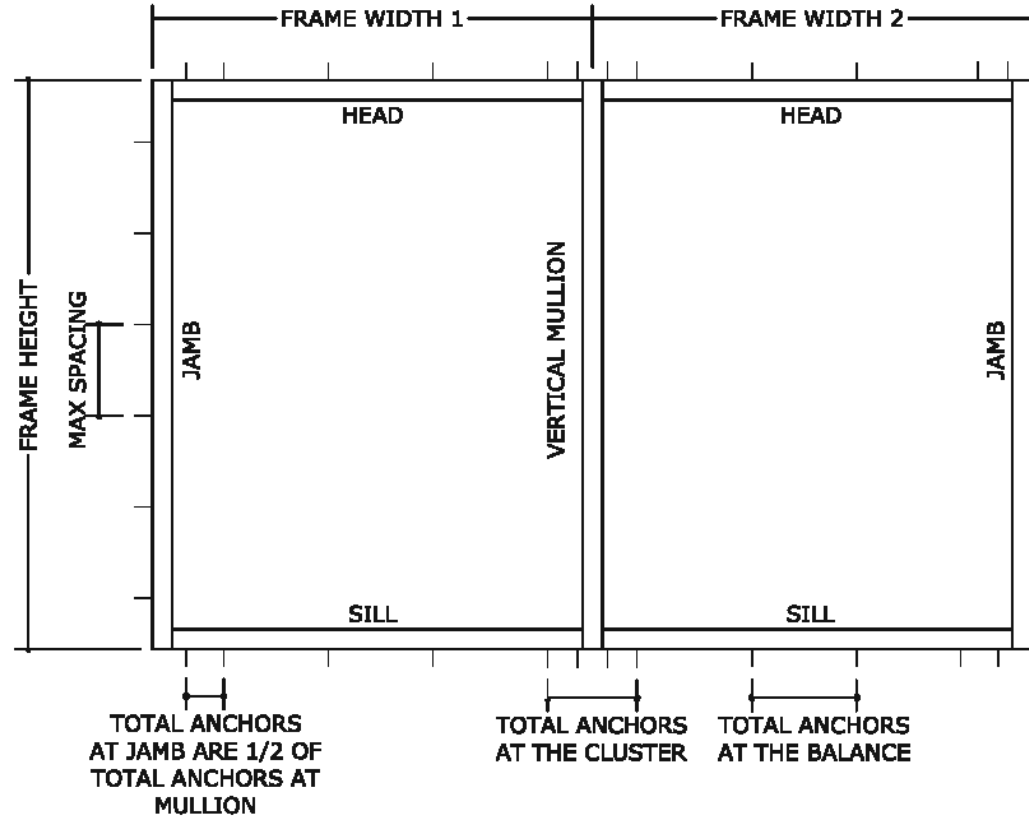
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FASTENER SCHEDULE



FASTENER SCHEDULE							
ANCHOR TYPE	ANCHOR DIAMETER	TYPE	MANUFACTURER	SUBSTRATE	MIN EMBEDMENT (IN)	MIN EDGE DISTANCE (IN)	SPACING (IN)
A	5/16"	ULTRACON ANCHOR	DEWALT	POURED CONCRETE 3000 PSI MIN	2	3-3/4	3-3/4" O.C.
B	5/16"-24	DRIL-FLEX HEX WASHER HEAD SELF DRILLING SCREW	DEWALT	16 GA MIN. STUD 1/8" ALUMINUM-6063-T6	FULL	1-1/2	4" O.C.
C	5/16"	ULTRACON ANCHOR OR LAG SCREW	DEWALT	2X WOOD BUCK G=0.55	1-1/2	1-1/2	4" O.C.

NOTE:
 - 1/4" Ø ANCHORS OF ANY KIND ARE PERMITTED UNDER SITE SPECIFIC CONDITIONS.
 - MODIFICATIONS TO THE ANCHORING WILL BE REQUIRED FOR THESE CONDITIONS AND SHALL BE DONE BY A PROFESSIONAL ENGINEER.

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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE A "MAX SHIM = 1/2"**

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE A																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)			
84	24	129	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.	160	12" O.C.	42" O.C.			
	30	107	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.	160	15" O.C.	42" O.C.			
	36	94	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.			
	42	84	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.	160	21" O.C.	42" O.C.			
	48	77	24" O.C.	42" O.C.	155	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.	160	24" O.C.	42" O.C.			
	54	72	27" O.C.	42" O.C.	145	27" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.	160	18" O.C.	42" O.C.			
	60	34	30" O.C.	42" O.C.	68	30" O.C.	42" O.C.	103	30" O.C.	28" O.C.	137	20" O.C.	21" O.C.	160	20" O.C.	17" O.C.	160	20" O.C.	17" O.C.	160	20" O.C.	17" O.C.			
	66	33	33" O.C.	42" O.C.	66	33" O.C.	42" O.C.	99	33" O.C.	28" O.C.	132	22" O.C.	21" O.C.	160	17" O.C.	17" O.C.	160	17" O.C.	17" O.C.	160	17" O.C.	17" O.C.			
	72	32	36" O.C.	42" O.C.	64	36" O.C.	42" O.C.	97	24" O.C.	28" O.C.	129	24" O.C.	21" O.C.	160	18" O.C.	17" O.C.	160	18" O.C.	17" O.C.	160	18" O.C.	17" O.C.			
78	31	39" O.C.	42" O.C.	63	39" O.C.	42" O.C.	95	26" O.C.	28" O.C.	127	20" O.C.	21" O.C.	159	16" O.C.	17" O.C.	160	16" O.C.	14" O.C.	160	16" O.C.	14" O.C.				
96	24	110	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.	160	12" O.C.	48" O.C.			
	30	91	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.	160	15" O.C.	48" O.C.			
	36	79	18" O.C.	48" O.C.	159	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.			
	42	70	21" O.C.	48" O.C.	141	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.	160	21" O.C.	48" O.C.			
	48	64	24" O.C.	48" O.C.	129	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.			
	54	59	27" O.C.	48" O.C.	119	27" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.			
	60	28	30" O.C.	48" O.C.	56	30" O.C.	48" O.C.	84	30" O.C.	32" O.C.	112	30" O.C.	24" O.C.	141	20" O.C.	19" O.C.	160	20" O.C.	16" O.C.	160	20" O.C.	16" O.C.			
	66	26	33" O.C.	48" O.C.	53	33" O.C.	48" O.C.	80	33" O.C.	32" O.C.	107	22" O.C.	24" O.C.	134	22" O.C.	19" O.C.	160	17" O.C.	16" O.C.	160	17" O.C.	16" O.C.			
	72	25	36" O.C.	48" O.C.	51	36" O.C.	48" O.C.	77	36" O.C.	32" O.C.	103	24" O.C.	24" O.C.	129	24" O.C.	19" O.C.	155	18" O.C.	16" O.C.	160	18" O.C.	14" O.C.			
78	25	39" O.C.	48" O.C.	50	39" O.C.	48" O.C.	75	26" O.C.	32" O.C.	100	26" O.C.	24" O.C.	125	20" O.C.	19" O.C.	150	16" O.C.	16" O.C.	160	16" O.C.	14" O.C.				
108	24	97	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.	160	12" O.C.	54" O.C.			
	30	80	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.	160	15" O.C.	54" O.C.			
	36	68	18" O.C.	54" O.C.	137	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.			
	42	61	21" O.C.	54" O.C.	122	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.	160	21" O.C.	54" O.C.			
	48	55	24" O.C.	54" O.C.	110	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.	160	24" O.C.	54" O.C.			
	54	51	27" O.C.	54" O.C.	102	27" O.C.	54" O.C.	153	27" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.	160	18" O.C.	54" O.C.			
	60	23	30" O.C.	54" O.C.	47	30" O.C.	54" O.C.	71	30" O.C.	36" O.C.	95	30" O.C.	27" O.C.	119	30" O.C.	22" O.C.	143	20" O.C.	18" O.C.	160	20" O.C.	15" O.C.			
	66	22	33" O.C.	54" O.C.	45	33" O.C.	54" O.C.	67	33" O.C.	36" O.C.	90	33" O.C.	27" O.C.	112	22" O.C.	22" O.C.	135	22" O.C.	18" O.C.	160	17" O.C.	14" O.C.			
	72	21	36" O.C.	54" O.C.	43	36" O.C.	54" O.C.	64	36" O.C.	36" O.C.	86	36" O.C.	27" O.C.	107	24" O.C.	22" O.C.	129	24" O.C.	18" O.C.	160	18" O.C.	14" O.C.			
78	20	39" O.C.	54" O.C.	41	39" O.C.	54" O.C.	62	39" O.C.	36" O.C.	83	26" O.C.	27" O.C.	103	26" O.C.	22" O.C.	124	20" O.C.	18" O.C.	160	16" O.C.	14" O.C.				
120	24	86	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.	160	12" O.C.	60" O.C.			
	30	70	15" O.C.	60" O.C.	141	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.	160	15" O.C.	60" O.C.			
	36	60	18" O.C.	60" O.C.	121	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.			
	42	53	21" O.C.	60" O.C.	107	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.	160	21" O.C.	60" O.C.			
	48	48	24" O.C.	60" O.C.	97	24" O.C.	60" O.C.	145	24" O.C.	60" O.C.	160	24" O.C.	60" O.C.	160	24" O.C.	60" O.C.	160	24" O.C.	60" O.C.	160	24" O.C.	60" O.C.			
	54	44	27" O.C.	60" O.C.	89	27" O.C.	60" O.C.	133	27" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.	160	18" O.C.	60" O.C.			
	60	20	30" O.C.	60" O.C.	41	30" O.C.	60" O.C.	62	30" O.C.	40" O.C.	82	30" O.C.	30" O.C.	103	30" O.C.	24" O.C.	124	30" O.C.	20" O.C.	160	20" O.C.	15" O.C.			
	66	19	33" O.C.	60" O.C.	38	33" O.C.	60" O.C.	58	33" O.C.	40" O.C.	77	33" O.C.	30" O.C.	97	33" O.C.	24" O.C.	116	22" O.C.	20" O.C.	155	17" O.C.	15" O.C.			
	72	18	36" O.C.	60" O.C.	36	36" O.C.	60" O.C.	55	36" O.C.	40" O.C.	73	36" O.C.	30" O.C.	92	24" O.C.	24" O.C.	110	24" O.C.	20" O.C.	147	18" O.C.	15" O.C.			
78	17	39" O.C.	60" O.C.	35	39" O.C.	60" O.C.	53	39" O.C.	40" O.C.	70	39" O.C.	30" O.C.	88	26" O.C.	24" O.C.	106	26" O.C.	20" O.C.	141	20" O.C.	15" O.C.				

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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
FLORIDA STATE APPROVAL

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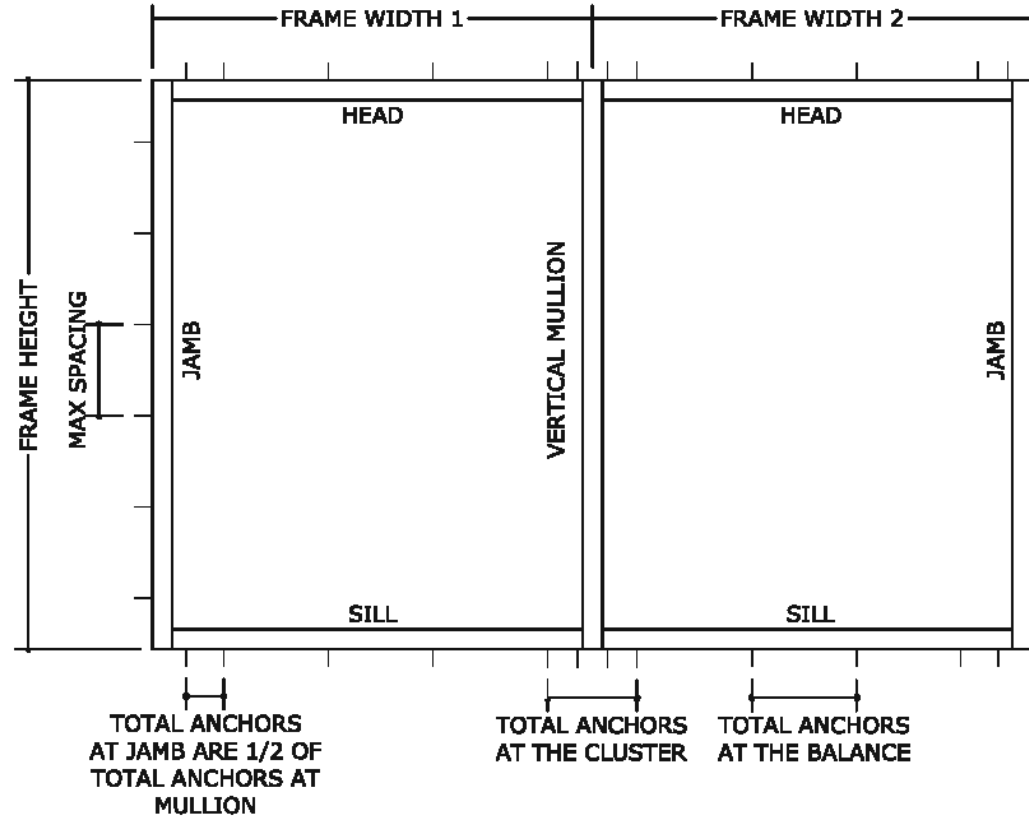
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FASTENER SCHEDULE



FASTENER SCHEDULE							
ANCHOR TYPE	ANCHOR DIAMETER	TYPE	MANUFACTURER	SUBSTRATE	MIN EMBEDMENT (IN)	MIN EDGE DISTANCE (IN)	SPACING (IN)
A	5/16"	ULTRACON ANCHOR	DEWALT	POURED CONCRETE 3000 PSI MIN	2	3-3/4	3-3/4" O.C.
B	5/16"-24	DRIL-FLEX HEX WASHER HEAD SELF DRILLING SCREW	DEWALT	16 GA MIN. STUD	FULL	1-1/2	4" O.C.
				1/8" ALUMINUM-6063-T6			
C	5/16"	ULTRACON ANCHOR OR LAG SCREW	DEWALT	2X WOOD BUCK G=0.55	1-1/2	1-1/2	4" O.C.

NOTE:
 - 1/4" Ø ANCHORS OF ANY KIND ARE PERMITTED UNDER SITE SPECIFIC CONDITIONS.
 - MODIFICATIONS TO THE ANCHORING WILL BE REQUIRED FOR THESE CONDITIONS AND SHALL BE DONE BY A PROFESSIONAL ENGINEER.

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FRC 2020 UPDATE	08/06/20	JPC	AJP

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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE B "MAX SHIM = 1/2"**

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE B																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)			
84	24	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.			
	30	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.			
	36	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.			
	42	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.			
	48	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.			
	54	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.			
	60	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.			
	66	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.			
72	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.				
78	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.				
96	24	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.			
	30	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.			
	36	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.			
	42	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.			
	48	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.			
	54	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.			
	60	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.			
	66	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.			
72	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.				
78	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.				
108	24	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.			
	30	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.			
	36	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.			
	42	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.			
	48	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.			
	54	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.			
	60	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.			
	66	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.			
72	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.				
78	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.				
120	24	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.	24	24" O.C.	24" O.C.			
	30	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.	30	30" O.C.	30" O.C.			
	36	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.	36	36" O.C.	36" O.C.			
	42	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.	42	42" O.C.	42" O.C.			
	48	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.	48	48" O.C.	48" O.C.			
	54	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.	54	54" O.C.	54" O.C.			
	60	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.	60	60" O.C.	60" O.C.			
	66	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.	66	66" O.C.	66" O.C.			
72	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.	72	72" O.C.	72" O.C.				
78	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.	78	78" O.C.	78" O.C.				



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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE B "MAX SHIM = 1/2"**

FRANK BENNARDO, P.E.
PE# 0046549 CA 9885



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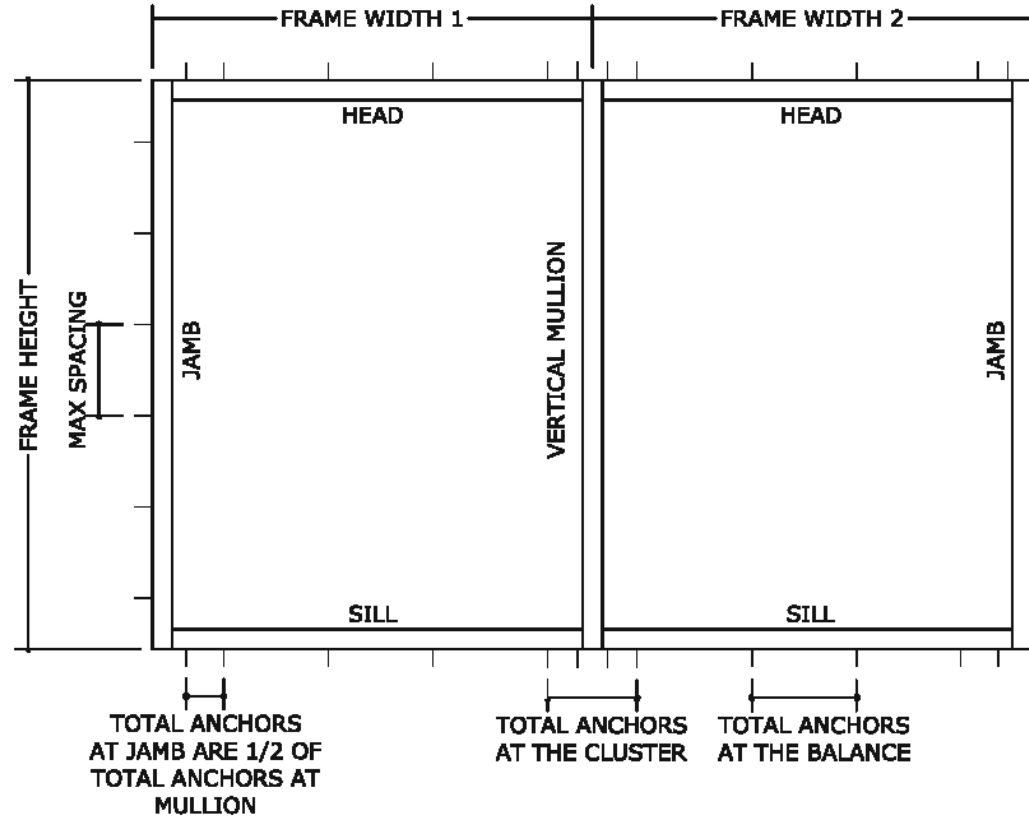
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80

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE B																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)			
132	24	75	12" O.C.	66" O.C.	150	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.	160	12" O.C.	66" O.C.			
	30	61	15" O.C.	66" O.C.	123	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.	160	15" O.C.	66" O.C.			
	36	52	18" O.C.	66" O.C.	105	18" O.C.	66" O.C.	158	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.	160	18" O.C.	66" O.C.			
	42	46	21" O.C.	66" O.C.	93	21" O.C.	66" O.C.	139	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.	160	21" O.C.	66" O.C.			
	48	41	24" O.C.	66" O.C.	83	24" O.C.	66" O.C.	125	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.	160	24" O.C.	66" O.C.			
	54	38	27" O.C.	66" O.C.	76	27" O.C.	66" O.C.	114	27" O.C.	66" O.C.	152	18" O.C.	66" O.C.	160	18" O.C.	44" O.C.	160	18" O.C.	44" O.C.	160	18" O.C.	44" O.C.			
	60	17	30" O.C.	66" O.C.	35	30" O.C.	66" O.C.	53	30" O.C.	44" O.C.	70	30" O.C.	33" O.C.	88	30" O.C.	26" O.C.	106	30" O.C.	22" O.C.	141	20" O.C.	17" O.C.			
	66	16	33" O.C.	66" O.C.	33	33" O.C.	66" O.C.	49	33" O.C.	44" O.C.	66	33" O.C.	33" O.C.	82	33" O.C.	26" O.C.	99	33" O.C.	22" O.C.	132	22" O.C.	17" O.C.			
	72	15	36" O.C.	66" O.C.	31	36" O.C.	66" O.C.	47	36" O.C.	44" O.C.	62	36" O.C.	33" O.C.	78	36" O.C.	26" O.C.	94	24" O.C.	22" O.C.	125	24" O.C.	17" O.C.			
78	14	39" O.C.	66" O.C.	29	39" O.C.	66" O.C.	44	39" O.C.	44" O.C.	59	39" O.C.	33" O.C.	74	26" O.C.	26" O.C.	89	26" O.C.	22" O.C.	119	20" O.C.	17" O.C.				
144	24	68	12" O.C.	72" O.C.	136	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.	160	12" O.C.	72" O.C.			
	30	56	15" O.C.	72" O.C.	112	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.	160	15" O.C.	72" O.C.			
	36	47	18" O.C.	72" O.C.	95	18" O.C.	72" O.C.	143	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.	160	18" O.C.	72" O.C.			
	42	41	21" O.C.	72" O.C.	83	21" O.C.	72" O.C.	125	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.	160	21" O.C.	72" O.C.			
	48	37	24" O.C.	72" O.C.	75	24" O.C.	72" O.C.	112	24" O.C.	72" O.C.	150	24" O.C.	72" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.	160	24" O.C.	48" O.C.			
	54	34	27" O.C.	72" O.C.	68	27" O.C.	72" O.C.	102	27" O.C.	72" O.C.	137	27" O.C.	72" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.	160	18" O.C.	48" O.C.			
	60	15	30" O.C.	72" O.C.	31	30" O.C.	72" O.C.	47	30" O.C.	48" O.C.	63	30" O.C.	36" O.C.	79	30" O.C.	29" O.C.	95	30" O.C.	24" O.C.	126	20" O.C.	18" O.C.			
	66	14	33" O.C.	72" O.C.	29	33" O.C.	72" O.C.	44	33" O.C.	48" O.C.	59	33" O.C.	36" O.C.	74	33" O.C.	29" O.C.	88	33" O.C.	24" O.C.	118	22" O.C.	18" O.C.			
	72	13	36" O.C.	72" O.C.	27	36" O.C.	72" O.C.	41	36" O.C.	48" O.C.	55	36" O.C.	36" O.C.	69	36" O.C.	29" O.C.	83	36" O.C.	24" O.C.	111	24" O.C.	18" O.C.			
78	13	39" O.C.	72" O.C.	26	39" O.C.	72" O.C.	39	39" O.C.	48" O.C.	52	39" O.C.	36" O.C.	66	39" O.C.	29" O.C.	79	26" O.C.	24" O.C.	105	26" O.C.	18" O.C.				
156	24	62	12" O.C.	78" O.C.	125	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.	160	12" O.C.	78" O.C.			
	30	51	15" O.C.	78" O.C.	102	15" O.C.	78" O.C.	153	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.	160	15" O.C.	78" O.C.			
	36	43	18" O.C.	78" O.C.	87	18" O.C.	78" O.C.	130	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.	160	18" O.C.	78" O.C.			
	42	38	21" O.C.	78" O.C.	76	21" O.C.	78" O.C.	114	21" O.C.	78" O.C.	152	21" O.C.	78" O.C.	160	21" O.C.	52" O.C.	160	21" O.C.	52" O.C.	160	21" O.C.	52" O.C.			
	48	34	24" O.C.	78" O.C.	68	24" O.C.	78" O.C.	102	24" O.C.	78" O.C.	136	24" O.C.	78" O.C.	160	24" O.C.	52" O.C.	160	24" O.C.	52" O.C.	160	24" O.C.	52" O.C.			
	54	31	27" O.C.	78" O.C.	62	27" O.C.	78" O.C.	93	27" O.C.	78" O.C.	124	27" O.C.	78" O.C.	155	18" O.C.	52" O.C.	160	18" O.C.	52" O.C.	160	18" O.C.	52" O.C.			
	60	14	30" O.C.	78" O.C.	28	30" O.C.	78" O.C.	43	30" O.C.	52" O.C.	57	30" O.C.	39" O.C.	71	30" O.C.	31" O.C.	86	30" O.C.	26" O.C.	114	30" O.C.	20" O.C.			
	66	13	33" O.C.	78" O.C.	26	33" O.C.	78" O.C.	40	33" O.C.	52" O.C.	53	33" O.C.	39" O.C.	66	33" O.C.	31" O.C.	80	33" O.C.	26" O.C.	106	22" O.C.	20" O.C.			
	72	12	36" O.C.	78" O.C.	25	36" O.C.	78" O.C.	37	36" O.C.	52" O.C.	50	36" O.C.	39" O.C.	62	36" O.C.	31" O.C.	75	36" O.C.	26" O.C.	100	24" O.C.	20" O.C.			
78	11	39" O.C.	78" O.C.	23	39" O.C.	78" O.C.	35	39" O.C.	52" O.C.	47	39" O.C.	39" O.C.	59	39" O.C.	31" O.C.	71	39" O.C.	26" O.C.	95	26" O.C.	20" O.C.				
168	24	57	12" O.C.	84" O.C.	115	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.	160	12" O.C.	84" O.C.			
	30	47	15" O.C.	84" O.C.	94	15" O.C.	84" O.C.	141	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.	160	15" O.C.	84" O.C.			
	36	40	18" O.C.	84" O.C.	80	18" O.C.	84" O.C.	120	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.	160	18" O.C.	84" O.C.			
	42	35	21" O.C.	84" O.C.	70	21" O.C.	84" O.C.	105	21" O.C.	84" O.C.	140	21" O.C.	84" O.C.	160	21" O.C.	56" O.C.	160	21" O.C.	56" O.C.	160	21" O.C.	56" O.C.			
	48	31	24" O.C.	84" O.C.	62	24" O.C.	84" O.C.	94	24" O.C.	84" O.C.	125	24" O.C.	84" O.C.	156	24" O.C.	56" O.C.	160	24" O.C.	56" O.C.	160	24" O.C.	56" O.C.			
	54	28	27" O.C.	84" O.C.	56	27" O.C.	84" O.C.	85	27" O.C.	84" O.C.	113	27" O.C.	84" O.C.	142	27" O.C.	56" O.C.	160	18" O.C.	56" O.C.	160	18" O.C.	56" O.C.			
	60	13	30" O.C.	84" O.C.	26	30" O.C.	84" O.C.	39	30" O.C.	56" O.C.	52	30" O.C.	42" O.C.	65	30" O.C.	34" O.C.	78	30" O.C.	28" O.C.	104	30" O.C.	21" O.C.			
	66	12	33" O.C.	84" O.C.	24	33" O.C.	84" O.C.	36	33" O.C.	56" O.C.	48	33" O.C.	42" O.C.	60	33" O.C.	34" O.C.	73	33" O.C.	28" O.C.	97	33" O.C.	21" O.C.			
	72	11	36" O.C.	84" O.C.	22	36" O.C.	84" O.C.	34	36" O.C.	56" O.C.	45	36" O.C.	42" O.C.	57	36" O.C.	34" O.C.	68	36" O.C.	28" O.C.	91	24" O.C.	21" O.C.			
78	10	39" O.C.	84" O.C.	21	39" O.C.	84" O.C.	32	39" O.C.	56" O.C.	43	39" O.C.	42" O.C.	53	39" O.C.	34" O.C.	64	39" O.C.	28" O.C.	86	26" O.C.	21" O.C.				

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FASTENER SCHEDULE



FASTENER SCHEDULE							
ANCHOR TYPE	ANCHOR DIAMETER	TYPE	MANUFACTURER	SUBSTRATE	MIN EMBEDMENT (IN)	MIN EDGE DISTANCE (IN)	SPACING (IN)
A	5/16"	ULTRACON ANCHOR	DEWALT	POURED CONCRETE 3000 PSI MIN	2	3-3/4	3-3/4" O.C.
B	5/16"-24	DRIL-FLEX HEX WASHER HEAD SELF DRILLING SCREW	DEWALT	16 GA MIN. STUD 1/8" ALUMINUM-6063-T6	FULL	1-1/2	4" O.C.
C	5/16"	ULTRACON ANCHOR OR LAG SCREW	DEWALT	2X WOOD BUCK G=0.55	1-1/2	1-1/2	4" O.C.

NOTE:
 - 1/4" Ø ANCHORS OF ANY KIND ARE PERMITTED UNDER SITE SPECIFIC CONDITIONS.
 - MODIFICATIONS TO THE ANCHORING WILL BE REQUIRED FOR THESE CONDITIONS AND SHALL BE DONE BY A PROFESSIONAL ENGINEER.

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FRC 2020 UPDATE	08/06/20	JPC	AJP
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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE C "MAX SHIM = 1/2"**

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE C																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)
84	24	33	12" O.C.	42" O.C.	66	12" O.C.	42" O.C.	100	12" O.C.	42" O.C.	133	12" O.C.	42" O.C.	160	12" O.C.	28" O.C.	160	12" O.C.	28" O.C.	160	12" O.C.	28" O.C.	160	12" O.C.	28" O.C.
	30	27	15" O.C.	42" O.C.	55	15" O.C.	42" O.C.	83	15" O.C.	42" O.C.	111	15" O.C.	42" O.C.	139	10" O.C.	28" O.C.	160	10" O.C.	28" O.C.	160	10" O.C.	28" O.C.	160	10" O.C.	28" O.C.
	36	24	18" O.C.	42" O.C.	48	18" O.C.	42" O.C.	72	18" O.C.	42" O.C.	96	12" O.C.	42" O.C.	121	12" O.C.	28" O.C.	145	9" O.C.	28" O.C.	160	9" O.C.	21" O.C.	160	9" O.C.	21" O.C.
	42	21	21" O.C.	42" O.C.	43	21" O.C.	42" O.C.	65	21" O.C.	42" O.C.	87	14" O.C.	42" O.C.	108	11" O.C.	28" O.C.	130	11" O.C.	28" O.C.	160	8" O.C.	21" O.C.	160	8" O.C.	21" O.C.
	48	20	24" O.C.	42" O.C.	40	24" O.C.	42" O.C.	60	16" O.C.	42" O.C.	80	12" O.C.	42" O.C.	100	12" O.C.	28" O.C.	120	10" O.C.	28" O.C.	160	7" O.C.	21" O.C.	160	7" O.C.	21" O.C.
	54	18	27" O.C.	42" O.C.	37	27" O.C.	42" O.C.	56	18" O.C.	42" O.C.	74	14" O.C.	42" O.C.	93	11" O.C.	28" O.C.	112	9" O.C.	28" O.C.	149	7" O.C.	21" O.C.	160	7" O.C.	21" O.C.
	60	8	30" O.C.	42" O.C.	17	30" O.C.	42" O.C.	26	30" O.C.	28" O.C.	35	20" O.C.	21" O.C.	44	20" O.C.	17" O.C.	53	15" O.C.	14" O.C.	71	12" O.C.	11" O.C.	160	12" O.C.	11" O.C.
	66	8	33" O.C.	42" O.C.	17	33" O.C.	42" O.C.	25	33" O.C.	28" O.C.	34	22" O.C.	21" O.C.	42	17" O.C.	17" O.C.	51	17" O.C.	14" O.C.	68	11" O.C.	11" O.C.	160	11" O.C.	11" O.C.
72	8	36" O.C.	42" O.C.	16	36" O.C.	42" O.C.	25	24" O.C.	28" O.C.	33	24" O.C.	21" O.C.	41	18" O.C.	17" O.C.	50	14" O.C.	14" O.C.	66	12" O.C.	11" O.C.	160	12" O.C.	11" O.C.	
78	8	39" O.C.	42" O.C.	16	39" O.C.	42" O.C.	24	26" O.C.	28" O.C.	32	20" O.C.	21" O.C.	41	16" O.C.	17" O.C.	49	13" O.C.	14" O.C.	65	11" O.C.	11" O.C.	160	11" O.C.	11" O.C.	
96	24	28	12" O.C.	48" O.C.	57	12" O.C.	48" O.C.	85	12" O.C.	48" O.C.	114	12" O.C.	48" O.C.	142	12" O.C.	32" O.C.	160	12" O.C.	32" O.C.	160	12" O.C.	32" O.C.	160	12" O.C.	32" O.C.
	30	23	15" O.C.	48" O.C.	47	15" O.C.	48" O.C.	71	15" O.C.	48" O.C.	94	15" O.C.	48" O.C.	118	15" O.C.	32" O.C.	142	10" O.C.	32" O.C.	160	10" O.C.	24" O.C.	160	10" O.C.	24" O.C.
	36	20	18" O.C.	48" O.C.	41	18" O.C.	48" O.C.	61	18" O.C.	48" O.C.	82	18" O.C.	48" O.C.	102	12" O.C.	32" O.C.	123	12" O.C.	32" O.C.	160	9" O.C.	24" O.C.	160	9" O.C.	24" O.C.
	42	18	21" O.C.	48" O.C.	36	21" O.C.	48" O.C.	54	21" O.C.	48" O.C.	73	14" O.C.	48" O.C.	91	14" O.C.	32" O.C.	109	11" O.C.	32" O.C.	146	8" O.C.	24" O.C.	160	8" O.C.	24" O.C.
	48	16	24" O.C.	48" O.C.	33	24" O.C.	48" O.C.	50	24" O.C.	48" O.C.	66	16" O.C.	48" O.C.	83	12" O.C.	32" O.C.	100	12" O.C.	32" O.C.	133	8" O.C.	24" O.C.	160	8" O.C.	24" O.C.
	54	15	27" O.C.	48" O.C.	30	27" O.C.	48" O.C.	46	18" O.C.	48" O.C.	61	14" O.C.	48" O.C.	77	14" O.C.	32" O.C.	92	11" O.C.	32" O.C.	123	8" O.C.	24" O.C.	160	8" O.C.	24" O.C.
	60	7	30" O.C.	48" O.C.	14	30" O.C.	48" O.C.	21	30" O.C.	32" O.C.	29	30" O.C.	24" O.C.	36	20" O.C.	19" O.C.	43	20" O.C.	16" O.C.	58	15" O.C.	12" O.C.	160	15" O.C.	12" O.C.
	66	6	33" O.C.	48" O.C.	13	33" O.C.	48" O.C.	20	33" O.C.	32" O.C.	27	22" O.C.	24" O.C.	34	22" O.C.	19" O.C.	41	17" O.C.	16" O.C.	55	13" O.C.	12" O.C.	160	13" O.C.	12" O.C.
72	6	36" O.C.	48" O.C.	13	36" O.C.	48" O.C.	20	36" O.C.	32" O.C.	26	24" O.C.	24" O.C.	33	24" O.C.	19" O.C.	40	18" O.C.	16" O.C.	53	14" O.C.	12" O.C.	160	14" O.C.	12" O.C.	
78	6	39" O.C.	48" O.C.	12	39" O.C.	48" O.C.	19	26" O.C.	32" O.C.	25	26" O.C.	24" O.C.	32	20" O.C.	19" O.C.	38	16" O.C.	16" O.C.	51	13" O.C.	12" O.C.	160	13" O.C.	12" O.C.	
108	24	25	12" O.C.	54" O.C.	50	12" O.C.	54" O.C.	75	12" O.C.	54" O.C.	100	12" O.C.	54" O.C.	125	12" O.C.	36" O.C.	150	12" O.C.	36" O.C.	160	12" O.C.	27" O.C.	160	12" O.C.	27" O.C.
	30	20	15" O.C.	54" O.C.	41	15" O.C.	54" O.C.	61	15" O.C.	54" O.C.	82	15" O.C.	54" O.C.	103	15" O.C.	36" O.C.	123	15" O.C.	36" O.C.	160	10" O.C.	27" O.C.	160	10" O.C.	27" O.C.
	36	17	18" O.C.	54" O.C.	35	18" O.C.	54" O.C.	53	18" O.C.	54" O.C.	71	18" O.C.	54" O.C.	88	18" O.C.	36" O.C.	106	12" O.C.	36" O.C.	142	9" O.C.	27" O.C.	160	9" O.C.	27" O.C.
	42	15	21" O.C.	54" O.C.	31	21" O.C.	54" O.C.	47	21" O.C.	54" O.C.	63	21" O.C.	54" O.C.	78	14" O.C.	36" O.C.	94	14" O.C.	36" O.C.	126	11" O.C.	27" O.C.	160	11" O.C.	27" O.C.
	48	14	24" O.C.	54" O.C.	28	24" O.C.	54" O.C.	42	24" O.C.	54" O.C.	57	16" O.C.	54" O.C.	71	16" O.C.	36" O.C.	85	12" O.C.	36" O.C.	114	10" O.C.	27" O.C.	160	10" O.C.	27" O.C.
	54	13	27" O.C.	54" O.C.	26	27" O.C.	54" O.C.	39	27" O.C.	54" O.C.	52	18" O.C.	54" O.C.	65	14" O.C.	36" O.C.	79	14" O.C.	36" O.C.	105	9" O.C.	27" O.C.	160	9" O.C.	27" O.C.
	60	6	30" O.C.	54" O.C.	12	30" O.C.	54" O.C.	18	30" O.C.	36" O.C.	24	30" O.C.	27" O.C.	30	30" O.C.	22" O.C.	36	20" O.C.	18" O.C.	49	15" O.C.	14" O.C.	160	15" O.C.	14" O.C.
	66	5	33" O.C.	54" O.C.	11	33" O.C.	54" O.C.	17	33" O.C.	36" O.C.	23	33" O.C.	27" O.C.	29	22" O.C.	22" O.C.	34	22" O.C.	18" O.C.	46	17" O.C.	14" O.C.	160	17" O.C.	14" O.C.
72	5	36" O.C.	54" O.C.	11	36" O.C.	54" O.C.	16	36" O.C.	36" O.C.	22	36" O.C.	27" O.C.	27	24" O.C.	22" O.C.	33	24" O.C.	18" O.C.	44	18" O.C.	14" O.C.	160	18" O.C.	14" O.C.	
78	5	39" O.C.	54" O.C.	10	39" O.C.	54" O.C.	16	39" O.C.	36" O.C.	21	26" O.C.	27" O.C.	26	26" O.C.	22" O.C.	32	20" O.C.	18" O.C.	42	16" O.C.	14" O.C.	160	16" O.C.	14" O.C.	
120	24	22	12" O.C.	60" O.C.	44	12" O.C.	60" O.C.	66	12" O.C.	60" O.C.	88	12" O.C.	60" O.C.	111	12" O.C.	40" O.C.	133	12" O.C.	40" O.C.	160	12" O.C.	30" O.C.	160	12" O.C.	30" O.C.
	30	18	15" O.C.	60" O.C.	36	15" O.C.	60" O.C.	54	15" O.C.	60" O.C.	73	15" O.C.	60" O.C.	91	15" O.C.	40" O.C.	109	15" O.C.	40" O.C.	146	10" O.C.	30" O.C.	160	10" O.C.	30" O.C.
	36	15	18" O.C.	60" O.C.	31	18" O.C.	60" O.C.	47	18" O.C.	60" O.C.	62	18" O.C.	60" O.C.	78	18" O.C.	40" O.C.	94	12" O.C.	40" O.C.	125	12" O.C.	30" O.C.	160	12" O.C.	30" O.C.
	42	13	21" O.C.	60" O.C.	27	21" O.C.	60" O.C.	41	21" O.C.	60" O.C.	55	21" O.C.	60" O.C.	69	14" O.C.	40" O.C.	83	14" O.C.	40" O.C.	110	11" O.C.	30" O.C.	160	11" O.C.	30" O.C.
	48	12	24" O.C.	60" O.C.	25	24" O.C.	60" O.C.	37	24" O.C.	60" O.C.	50	24" O.C.	60" O.C.	62	16" O.C.	40" O.C.	75	16" O.C.	40" O.C.	100	12" O.C.	30" O.C.	160	12" O.C.	30" O.C.
	54	11	27" O.C.	60" O.C.	22	27" O.C.	60" O.C.	34	27" O.C.	60" O.C.	45	18" O.C.	60" O.C.	57	18" O.C.	40" O.C.	68	14" O.C.	40" O.C.	91	11" O.C.	30" O.C.	160	11" O.C.	30" O.C.
	60	5	30" O.C.	60" O.C.	10	30" O.C.	60" O.C.	16	30" O.C.	40" O.C.	21	30" O.C.	30" O.C.	26	30" O.C.	24" O.C.	32	30" O.C.	20" O.C.	42	20" O.C.	15" O.C.	160	20" O.C.	15" O.C.
	66	5	33" O.C.	60" O.C.	10	33" O.C.	60" O.C.	15	33" O.C.	40" O.C.	20	33" O.C.	30" O.C.	25	33" O.C.	24" O.C.	30	22" O.C.	20" O.C.	40	17" O.C.	15" O.C.	160	17" O.C.	15" O.C.
72	4	36" O.C.	60" O.C.	9	36" O.C.	60" O.C.	14	36" O.C.	40" O.C.	19	36" O.C.	30" O.C.	23	24" O.C.	24" O.C.	28	24" O.C.	20" O.C.	38	18" O.C.	15" O.C.	160	18" O.C.	15" O.C.	
78	4	39" O.C.	60" O.C.	9	39" O.C.	60" O.C.	13	39" O.C.	40" O.C.	18	39" O.C.	30" O.C.	22	26" O.C.	24" O.C.	27	26" O.C.	20" O.C.	36	20" O.C.	15" O.C.	160	20" O.C.	15" O.C.	

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**MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR
HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE C "MAX SHIM = 1/2"**

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE C																							
		2			4			6			8			10			12			16					
		MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	HEAD/SILL MAX ANCHOR SPACING (IN)	JAMBS MAX ANCHOR SPACING (IN)			
132	24	20	12" O.C.	66" O.C.	40	12" O.C.	66" O.C.	60	12" O.C.	66" O.C.	80	12" O.C.	66" O.C.	100	12" O.C.	44" O.C.	120	12" O.C.	44" O.C.	160	12" O.C.	33" O.C.			
	30	16	15" O.C.	66" O.C.	32	15" O.C.	66" O.C.	49	15" O.C.	66" O.C.	65	15" O.C.	66" O.C.	82	15" O.C.	44" O.C.	98	15" O.C.	44" O.C.	131	10" O.C.	33" O.C.			
	36	14	18" O.C.	66" O.C.	28	18" O.C.	66" O.C.	42	18" O.C.	66" O.C.	56	18" O.C.	66" O.C.	70	18" O.C.	44" O.C.	84	18" O.C.	44" O.C.	112	12" O.C.	33" O.C.			
	42	12	21" O.C.	66" O.C.	24	21" O.C.	66" O.C.	37	21" O.C.	66" O.C.	49	21" O.C.	66" O.C.	61	21" O.C.	44" O.C.	74	14" O.C.	44" O.C.	98	11" O.C.	33" O.C.			
	48	11	24" O.C.	66" O.C.	22	24" O.C.	66" O.C.	33	24" O.C.	66" O.C.	44	24" O.C.	66" O.C.	55	16" O.C.	44" O.C.	66	16" O.C.	44" O.C.	88	12" O.C.	33" O.C.			
	54	10	27" O.C.	66" O.C.	20	27" O.C.	66" O.C.	30	27" O.C.	66" O.C.	40	18" O.C.	66" O.C.	50	18" O.C.	44" O.C.	60	14" O.C.	44" O.C.	81	11" O.C.	33" O.C.			
	60	4	30" O.C.	66" O.C.	9	30" O.C.	66" O.C.	14	30" O.C.	44" O.C.	18	30" O.C.	33" O.C.	23	30" O.C.	26" O.C.	28	30" O.C.	22" O.C.	37	20" O.C.	17" O.C.			
	66	4	33" O.C.	66" O.C.	8	33" O.C.	66" O.C.	13	33" O.C.	44" O.C.	17	33" O.C.	33" O.C.	22	33" O.C.	26" O.C.	26	33" O.C.	22" O.C.	35	22" O.C.	17" O.C.			
	72	4	36" O.C.	66" O.C.	8	36" O.C.	66" O.C.	12	36" O.C.	44" O.C.	16	36" O.C.	33" O.C.	20	36" O.C.	26" O.C.	25	24" O.C.	22" O.C.	33	24" O.C.	17" O.C.			
78	3	39" O.C.	66" O.C.	7	39" O.C.	66" O.C.	11	39" O.C.	44" O.C.	15	39" O.C.	33" O.C.	19	26" O.C.	26" O.C.	23	26" O.C.	22" O.C.	31	20" O.C.	17" O.C.				
144	24	18	12" O.C.	72" O.C.	36	12" O.C.	72" O.C.	54	12" O.C.	72" O.C.	72	12" O.C.	72" O.C.	90	12" O.C.	48" O.C.	109	12" O.C.	48" O.C.	145	12" O.C.	36" O.C.			
	30	14	15" O.C.	72" O.C.	29	15" O.C.	72" O.C.	44	15" O.C.	72" O.C.	59	15" O.C.	72" O.C.	74	15" O.C.	48" O.C.	89	15" O.C.	48" O.C.	119	15" O.C.	36" O.C.			
	36	12	18" O.C.	72" O.C.	25	18" O.C.	72" O.C.	38	18" O.C.	72" O.C.	50	18" O.C.	72" O.C.	63	18" O.C.	48" O.C.	76	18" O.C.	48" O.C.	101	12" O.C.	36" O.C.			
	42	11	21" O.C.	72" O.C.	22	21" O.C.	72" O.C.	33	21" O.C.	72" O.C.	44	21" O.C.	72" O.C.	55	21" O.C.	48" O.C.	66	14" O.C.	48" O.C.	89	14" O.C.	36" O.C.			
	48	10	24" O.C.	72" O.C.	20	24" O.C.	72" O.C.	30	24" O.C.	72" O.C.	40	24" O.C.	72" O.C.	50	24" O.C.	48" O.C.	60	16" O.C.	48" O.C.	80	12" O.C.	36" O.C.			
	54	9	27" O.C.	72" O.C.	18	27" O.C.	72" O.C.	27	27" O.C.	72" O.C.	36	27" O.C.	72" O.C.	45	18" O.C.	48" O.C.	54	18" O.C.	48" O.C.	72	14" O.C.	36" O.C.			
	60	4	30" O.C.	72" O.C.	8	30" O.C.	72" O.C.	12	30" O.C.	48" O.C.	16	30" O.C.	36" O.C.	21	30" O.C.	29" O.C.	25	30" O.C.	24" O.C.	33	20" O.C.	18" O.C.			
	66	3	33" O.C.	72" O.C.	7	33" O.C.	72" O.C.	11	33" O.C.	48" O.C.	15	33" O.C.	36" O.C.	19	33" O.C.	29" O.C.	23	33" O.C.	24" O.C.	31	22" O.C.	18" O.C.			
	72	3	36" O.C.	72" O.C.	7	36" O.C.	72" O.C.	11	36" O.C.	48" O.C.	14	36" O.C.	36" O.C.	18	36" O.C.	29" O.C.	22	36" O.C.	24" O.C.	29	24" O.C.	18" O.C.			
78	3	39" O.C.	72" O.C.	7	39" O.C.	72" O.C.	10	39" O.C.	48" O.C.	14	39" O.C.	36" O.C.	17	39" O.C.	29" O.C.	21	26" O.C.	24" O.C.	28	26" O.C.	18" O.C.				
156	24	16	12" O.C.	78" O.C.	33	12" O.C.	78" O.C.	50	12" O.C.	78" O.C.	66	12" O.C.	78" O.C.	83	12" O.C.	52" O.C.	100	12" O.C.	52" O.C.	133	12" O.C.	39" O.C.			
	30	13	15" O.C.	78" O.C.	27	15" O.C.	78" O.C.	40	15" O.C.	78" O.C.	54	15" O.C.	78" O.C.	68	15" O.C.	52" O.C.	81	15" O.C.	52" O.C.	108	15" O.C.	39" O.C.			
	36	11	18" O.C.	78" O.C.	23	18" O.C.	78" O.C.	34	18" O.C.	78" O.C.	46	18" O.C.	78" O.C.	57	18" O.C.	52" O.C.	69	18" O.C.	52" O.C.	92	12" O.C.	39" O.C.			
	42	10	21" O.C.	78" O.C.	20	21" O.C.	78" O.C.	30	21" O.C.	78" O.C.	40	21" O.C.	78" O.C.	50	21" O.C.	52" O.C.	60	21" O.C.	52" O.C.	81	14" O.C.	39" O.C.			
	48	9	24" O.C.	78" O.C.	18	24" O.C.	78" O.C.	27	24" O.C.	78" O.C.	36	24" O.C.	78" O.C.	45	24" O.C.	52" O.C.	54	16" O.C.	52" O.C.	72	16" O.C.	39" O.C.			
	54	8	27" O.C.	78" O.C.	16	27" O.C.	78" O.C.	24	27" O.C.	78" O.C.	33	27" O.C.	78" O.C.	41	18" O.C.	52" O.C.	49	18" O.C.	52" O.C.	66	14" O.C.	39" O.C.			
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	66	3	33" O.C.	78" O.C.	7	33" O.C.	78" O.C.	10	33" O.C.	52" O.C.	14	33" O.C.	39" O.C.	17	33" O.C.	31" O.C.	21	33" O.C.	26" O.C.	28	22" O.C.	20" O.C.			
	72	3	36" O.C.	78" O.C.	6	36" O.C.	78" O.C.	10	36" O.C.	52" O.C.	13	36" O.C.	39" O.C.	16	36" O.C.	31" O.C.	20	36" O.C.	26" O.C.	26	24" O.C.	20" O.C.			
78	3	39" O.C.	78" O.C.	6	39" O.C.	78" O.C.	9	39" O.C.	52" O.C.	12	39" O.C.	39" O.C.	15	39" O.C.	31" O.C.	18	39" O.C.	26" O.C.	25	26" O.C.	20" O.C.				
168	24	15	12" O.C.	84" O.C.	30	12" O.C.	84" O.C.	46	12" O.C.	84" O.C.	61	12" O.C.	84" O.C.	76	12" O.C.	56" O.C.	92	12" O.C.	56" O.C.	123	12" O.C.	42" O.C.			
	30	12	15" O.C.	84" O.C.	25	15" O.C.	84" O.C.	37	15" O.C.	84" O.C.	50	15" O.C.	84" O.C.	62	15" O.C.	56" O.C.	75	15" O.C.	56" O.C.	100	15" O.C.	42" O.C.			
	36	10	18" O.C.	84" O.C.	21	18" O.C.	84" O.C.	32	18" O.C.	84" O.C.	42	18" O.C.	84" O.C.	53	18" O.C.	56" O.C.	64	18" O.C.	56" O.C.	85	18" O.C.	42" O.C.			
	42	9	21" O.C.	84" O.C.	18	21" O.C.	84" O.C.	27	21" O.C.	84" O.C.	37	21" O.C.	84" O.C.	46	21" O.C.	56" O.C.	55	21" O.C.	56" O.C.	74	14" O.C.	42" O.C.			
	48	8	24" O.C.	84" O.C.	16	24" O.C.	84" O.C.	25	24" O.C.	84" O.C.	33	24" O.C.	84" O.C.	41	24" O.C.	56" O.C.	50	24" O.C.	56" O.C.	66	16" O.C.	42" O.C.			
	54	7	27" O.C.	84" O.C.	15	27" O.C.	84" O.C.	22	27" O.C.	84" O.C.	30	27" O.C.	84" O.C.	37	27" O.C.	56" O.C.	45	18" O.C.	56" O.C.	60	14" O.C.	42" O.C.			
	60	3	30" O.C.	84" O.C.	6	30" O.C.	84" O.C.	10	30" O.C.	56" O.C.	13	30" O.C.	42" O.C.	17	30" O.C.	34" O.C.	20	30" O.C.	28" O.C.	27	30" O.C.	21" O.C.			
	66	3	33" O.C.	84" O.C.	6	33" O.C.	84" O.C.	9	33" O.C.	56" O.C.	12	33" O.C.	42" O.C.	16	33" O.C.	34" O.C.	19	33" O.C.	28" O.C.	25	33" O.C.	21" O.C.			
	72	3	36" O.C.	84" O.C.	6	36" O.C.	84" O.C.	9	36" O.C.	56" O.C.	12	36" O.C.	42" O.C.	15	36" O.C.	34" O.C.	18	36" O.C.	28" O.C.	24	24" O.C.	21" O.C.			
78	2	39" O.C.	84" O.C.	5	39" O.C.	84" O.C.	8	39" O.C.	56" O.C.	11	39" O.C.	42" O.C.	14	39" O.C.	34" O.C.	17	39" O.C.	28" O.C.	22	26" O.C.	21" O.C.				

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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
FLORIDA STATE APPROVAL

REMARKS	DRWN	CHKD	DATE
FRC 2020 UPDATE	JPC	AJP	08/08/20

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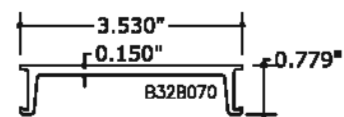
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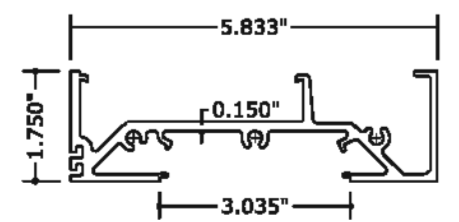
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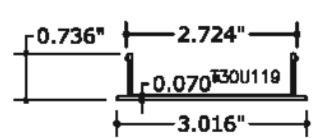
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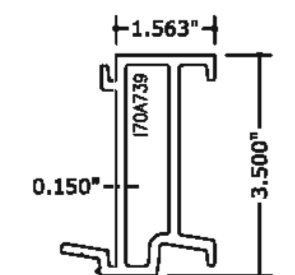
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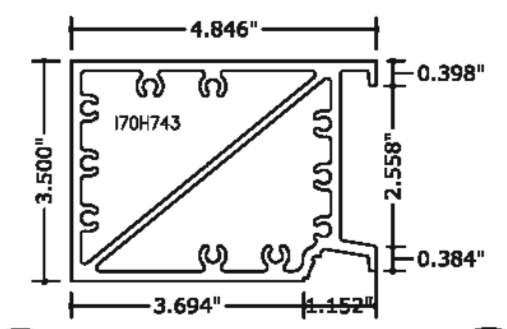
2 FRAME HEAD/SILL/ALT JAMB



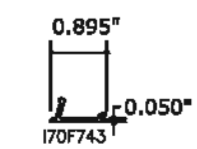
3 SNAP IN COVER



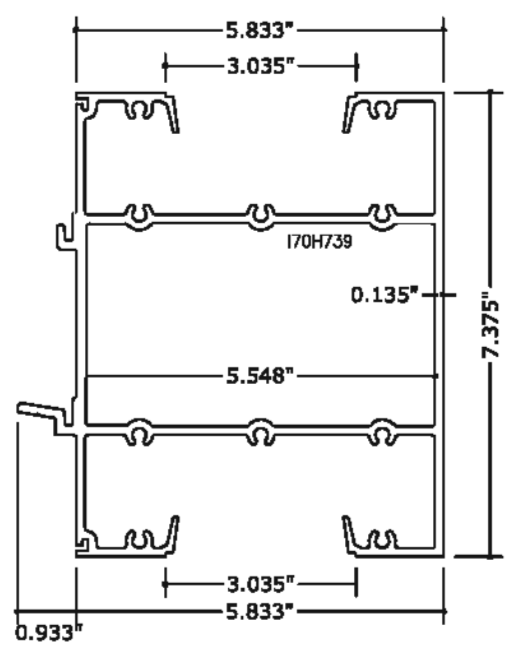
4 HORIZONTAL ADAPTOR



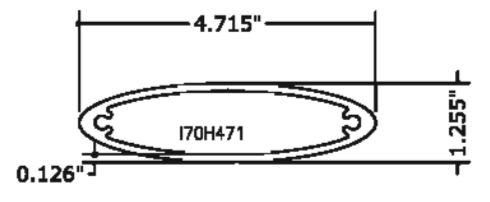
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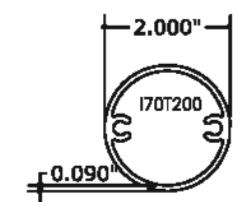
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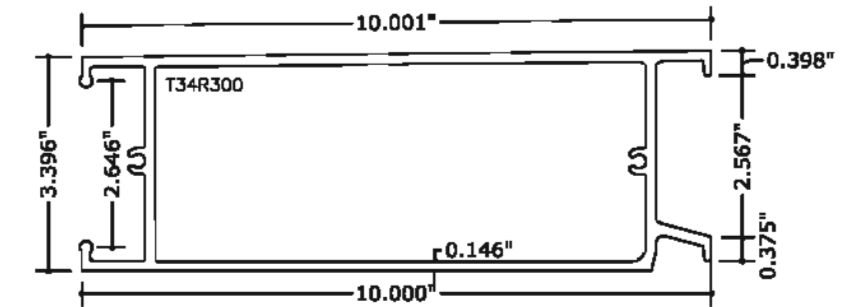
7 INTERMEDIATE



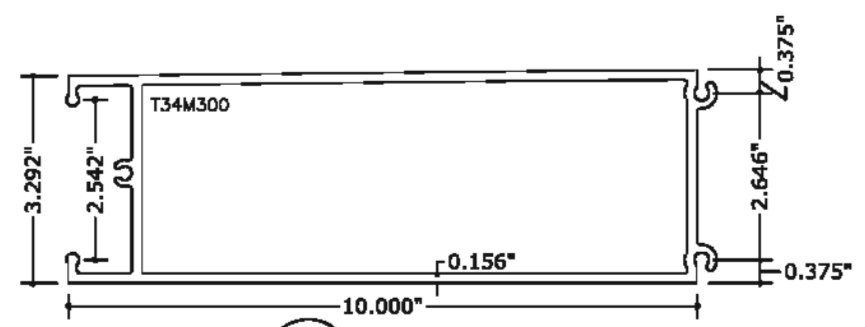
8 HORIZONTAL SUNSHADE ELLIPSE



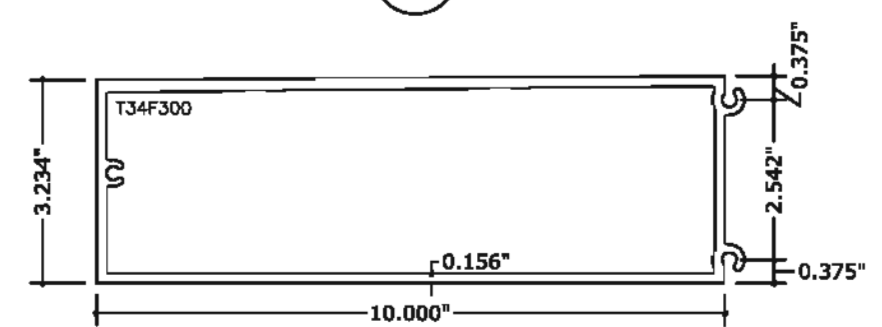
9 SUNSHADE 2" DIAM. CIRCLE TUBE



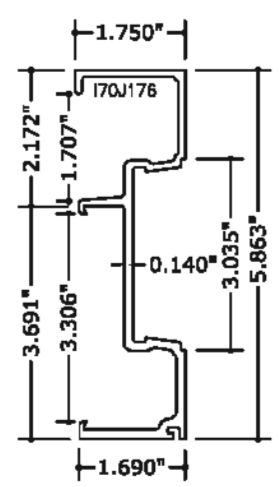
10 EXTERIOR COVER



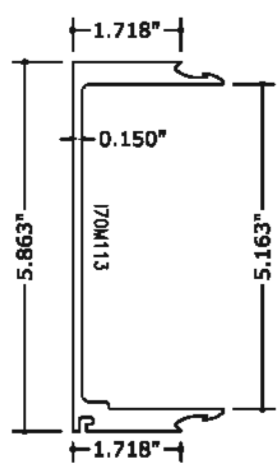
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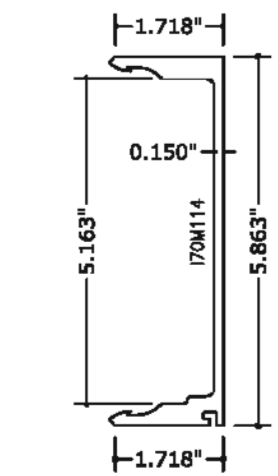
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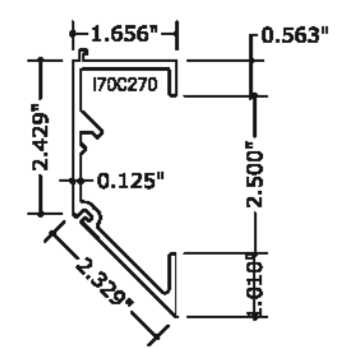
13 FRAME JAMB



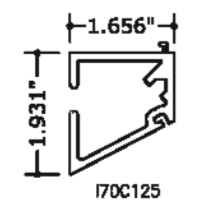
14 MALE JAMB / MULLION



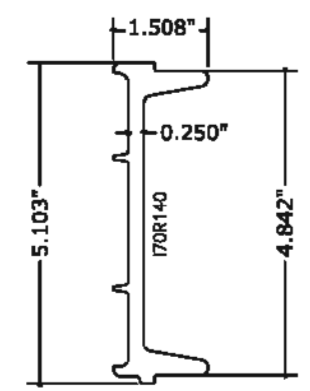
15 FEMALE JAMB / MULLION



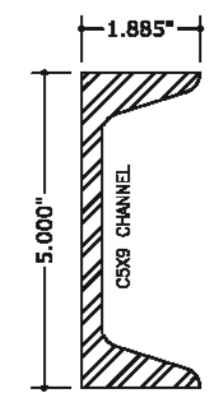
16 270° CORNER / MULLION



16.1 125° CORNER / ADAPTOR



17 ALUMINUM REINFORCEMENT



37 STEEL REINFORCEMENT



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REMARKS	DRWN	CHKD	DATE
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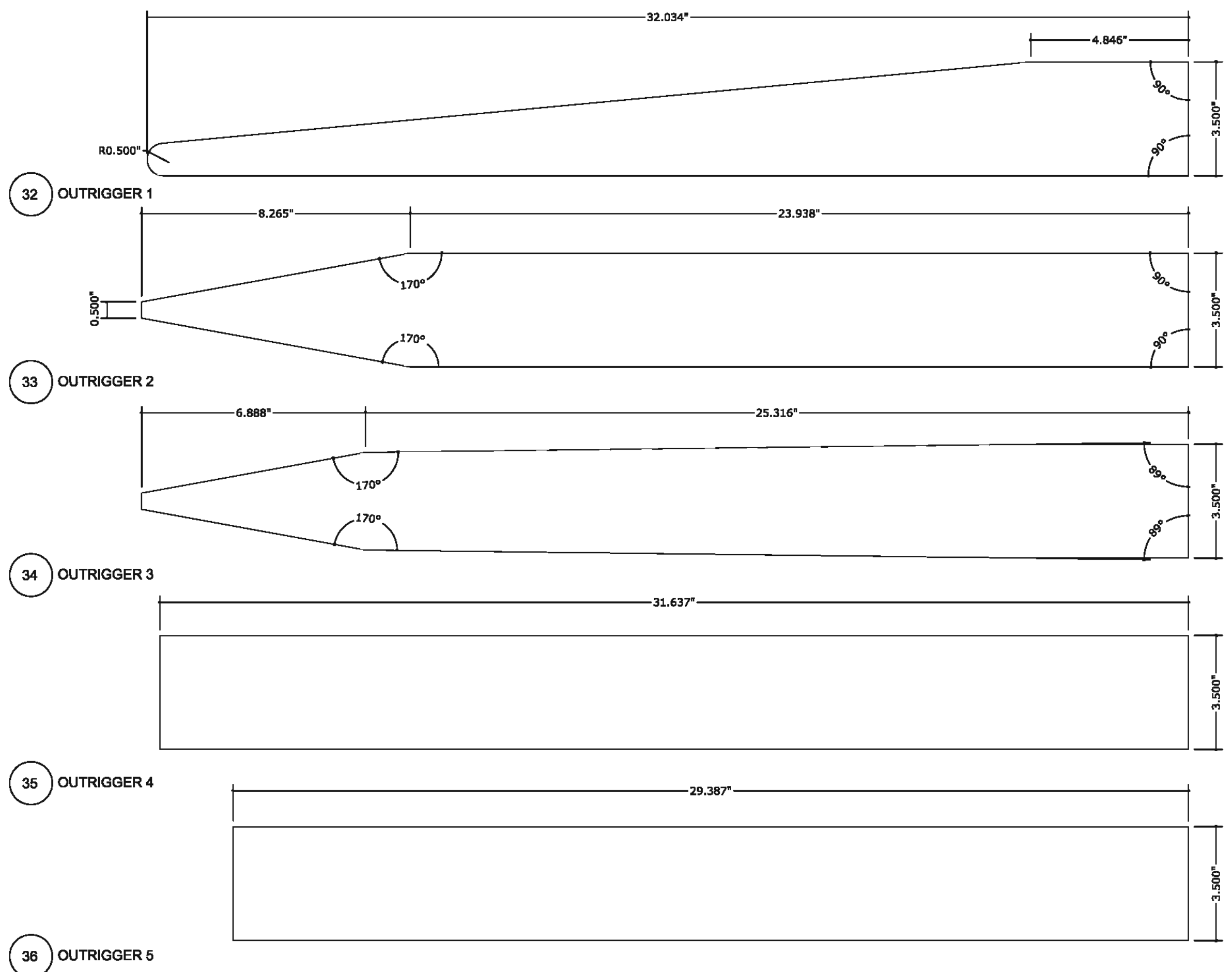
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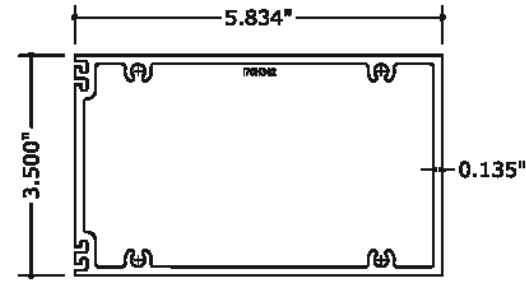
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33 OUTRIGGER 2

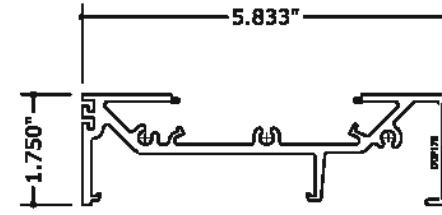
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35 OUTRIGGER 4

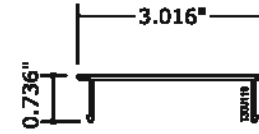
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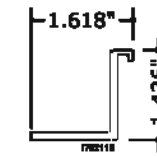
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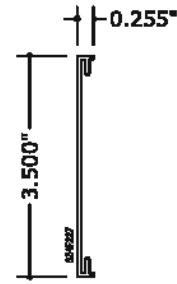
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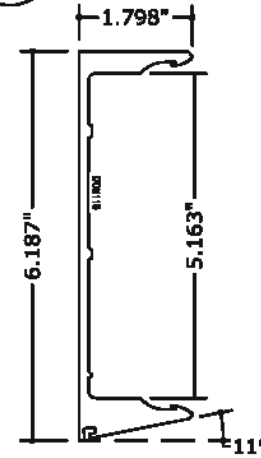
40 COVER CAP



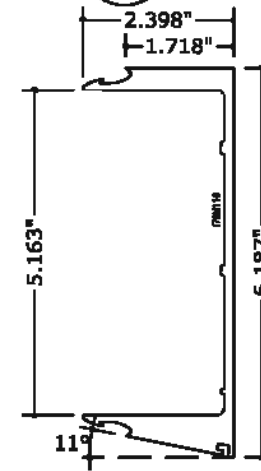
41 GLASS SUPPORT



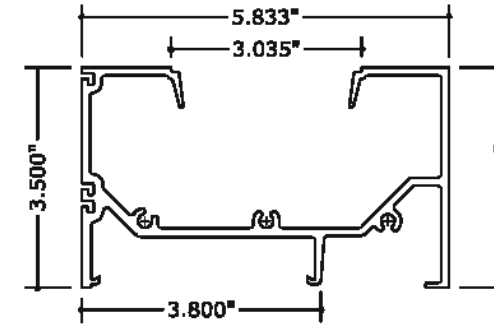
42 EXTERIOR TRIM



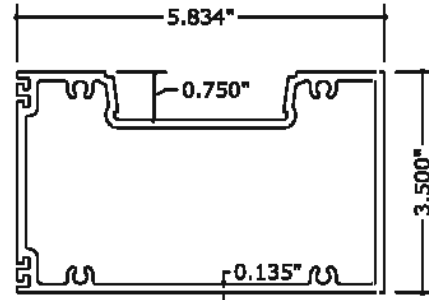
43 FEMALE JAMB / MULLION



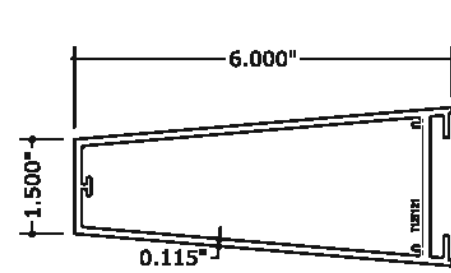
44 MALE JAMB / MULLION



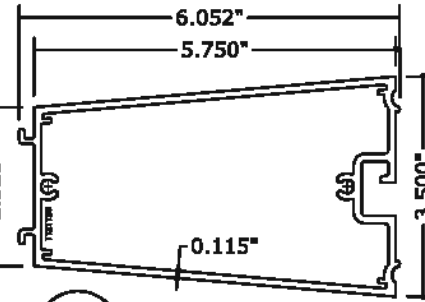
45 ALT. SILL



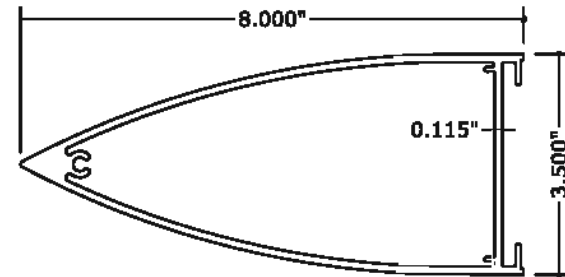
46 ALT. HEAD



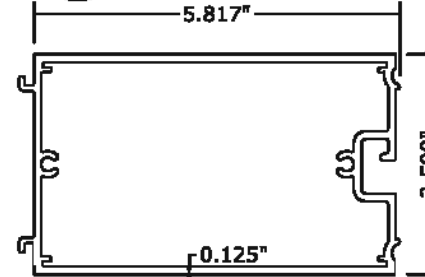
48 12" APPLIED FIN



47 12" FIN RETAINER



50 14" APPLIED FIN



49 14" FIN RETAINER



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PRO-TECH 75G ALUMINUM CURTAINWALL SYSTEM
FLORIDA STATE APPROVAL

REMARKS	DRWN	CHKD	DATE
FRC 2020 UPDATE	JPC	AJP	08/08/20

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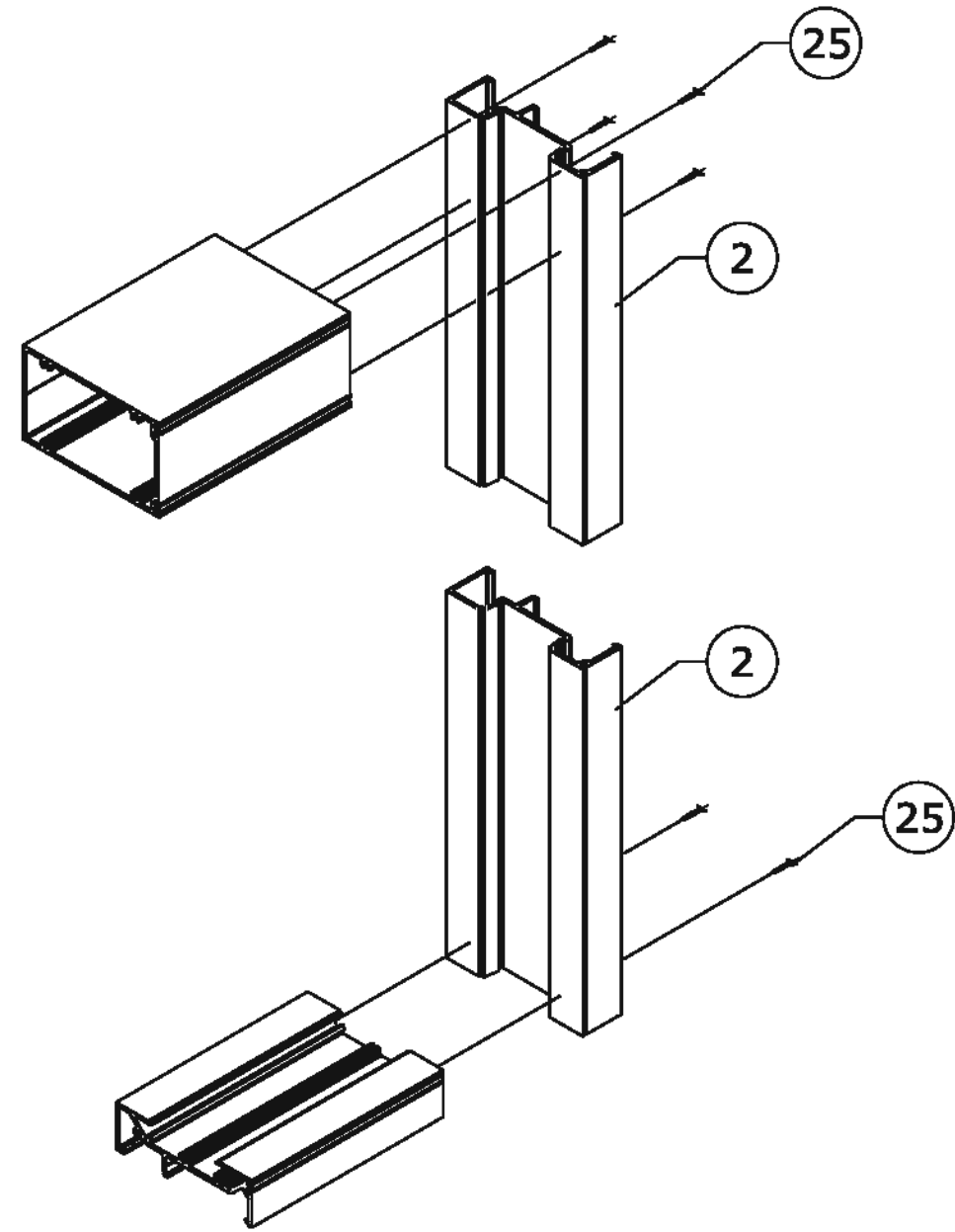
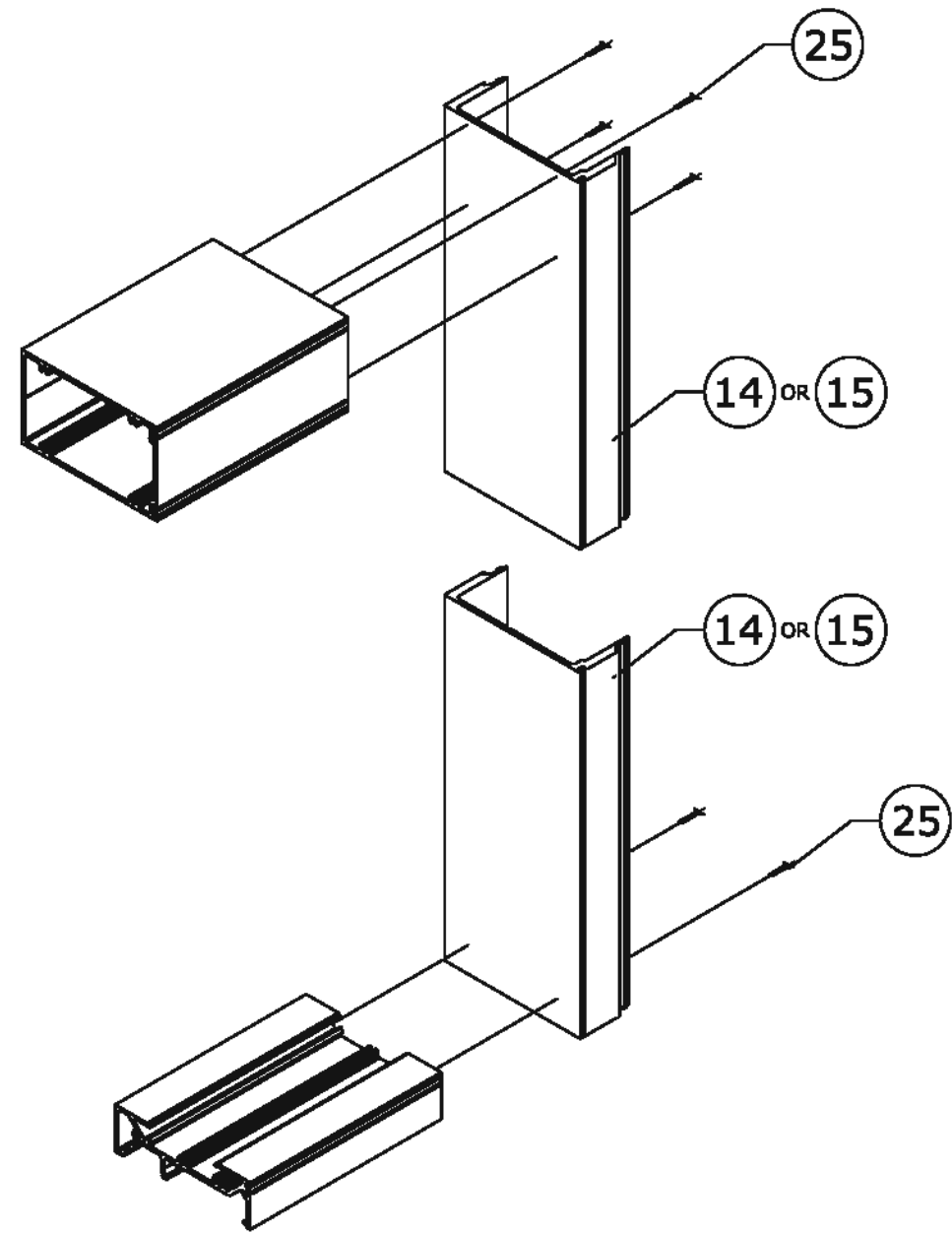
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BILL OF MATERIALS

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
1	B32B070	AS REQD.	SUB-BUCK	6005A-T5	-----
2	I70P176	AS REQD.	FRAME HEAD / SILL / ALT. JAMB	6005A-T5	-----
3	T30U119	AS REQD.	SNAP IN COVER	6063-T6	-----
4	I70A739	AS REQD.	HORIZONTAL ADAPTOR	6005A-T61	-----
5	I70H743	AS REQD.	HORIZONTAL ADAPTOR	6005A-T61	-----
6	I70F743	AS REQD.	HORIZONTAL COVER	6005A-T61	-----
7	I70H739	AS REQD.	INTERMEDIATE	6005A-T61	-----
8	I70H471	AS REQD.	HORIZONTAL SUNSHADE ELLIPSE	6005A-T61	-----
9	I70T200	AS REQD.	SUNSHADE 2"Ø CIRCLE TUBE	6005A-T61	-----
10	T34R300	AS REQD.	EXTERIOR COVER	6005A-T61	-----
11	T34M300	AS REQD.	EXTERIOR COVER	6005A-T61	-----
12	T34F300	AS REQD.	EXTERIOR COVER	6005A-T61	-----
13	I70J176	AS REQD.	FRAME JAMB	6005A-T5	-----
14	I70M113	AS REQD.	MALE JAMB/ MULLION	6005A-T5	-----
15	I70M114	AS REQD.	FEMALE JAMB/ MULLION	6005A-T5	-----
16	I70C270	AS REQD.	270° CORNER/ MULLION	6005A-T61	-----
16.1	I70C125	AS REQD.	125° CORNER/ ADAPTOR	6005A-T61	-----
17	I70R140	AS REQD.	ALUMINUM REINFORCEMENT	6005A-T5	-----
18	I70X116	AS REQD.	5" LONG SETTING PIECE (LAM. INSUL. GLASS)	6005A-T5	● 1/4 POINTS
19	6556	AS REQD.	GLAZING SPACER	POLYPROPYLENE	MPI - RIGID SPACER
20	-----	AS REQD.	SETTING BLOCK (1/8"x 3/4"x 4" LONG)	SILICONE	GLAZING RUBBER PROD., INC.
20a	-----	AS REQD.	SETTING BLOCK (1/8"x 1"x 5" LONG)	SILICONE	GLAZING RUBBER PROD., INC.
21	-----	AS REQD.	SHIM	PLASTIC	FALMOUTH PLASTICS
22	-----	AS REQD.	795 DC SILICONE BUILDING SEALANT	SILICONE	DOWSIL - JOINT SEALING
23	-----	AS REQD.	BACKER ROD	POLYURETHANE	TUNDRAFOAM BY INDUSTRIAL THERMO POLYMERS LTD.
24	-----	AS REQD.	983 DC STRUCTURAL GLAZING SEALANT	SILICONE	DOWSIL - STRUCTURAL SEALANT
25	1/4" x 1-1/4"	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	PAN HEAD PHILLIPS
26	1/4" x 1-1/4"	AS REQD.	SUNSHADE ASSEMBLY SCREWS	ST. STEEL	FLAT HEAD PHILLIPS
28	1/4" x 1 3/4"	AS REQD.	1/4" TEKS OR SELFDRILLING SCREWS	GRADE 5/PLATED OR PAINTED	-----
31	-----	AS REQD.	4-3/4" X 15-1/2" X 1/4" THK. ALUM. PLATE	ER4043 ALLOY	-----
32	-----	AS REQD.	OUTRIGGER TYPE 1 - 1/4" THICK ALUMINUM	-	-----
33	-----	AS REQD.	OUTRIGGER TYPE 2 - 1/4" THICK ALUMINUM	-	-----
34	-----	AS REQD.	OUTRIGGER TYPE 3 - 1/4" THICK ALUMINUM	-	-----
35	-----	AS REQD.	OUTRIGGER TYPE 4 - 1/4" THICK ALUMINUM	-	-----
36	-----	AS REQD.	OUTRIGGER TYPE 5 - 1/4" THICK ALUMINUM	-	-----
37	-----	AS REQD.	C5X9 CHANNEL	STEEL REINFORCEMENT	-----
38	I70H342	AS REQD.	INTERMEDIATE HORIZONTAL	6005A-T61	-----
39	I70P176	AS REQD.	STACKED MULLION	6005A-T61	-----
40	T30U119	AS REQD.	COVER CAP	6063-T6	-----
41	I70X116	AS REQD.	GLASS SUPPORT	6005A-T61	-----
42	S34F227	AS REQD.	EXTERIOR TRIM CAP	6063-T6	-----
43	I70M115	AS REQD.	MALE JAMB/ ANGLED MULLION	6005A-T61	-----
44	I70M116	AS REQD.	FEMALE JAMB/ ANGLED MULLION	6005A-T61	-----
45	I70P177	AS REQD.	ALTERNATE HEAD/SILL	6005A-T61	-----
46	I70H344	AS REQD.	ALTERNATE HEAD	6005A-T61	-----
47	-	AS REQD.	12" FIN RETAINER	6005A-T61	-----
48	-	AS REQD.	12" APPLIED FIN	6005A-T61	-----
49	-	AS REQD.	14" FIN RETAINER	6005A-T61	-----
50	-	AS REQD.	14" APPLIED FIN	6005A-T61	-----



FRAME CORNERS

FRANK BENNARDO, P.E.
PE# 0046549 CA 9885



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