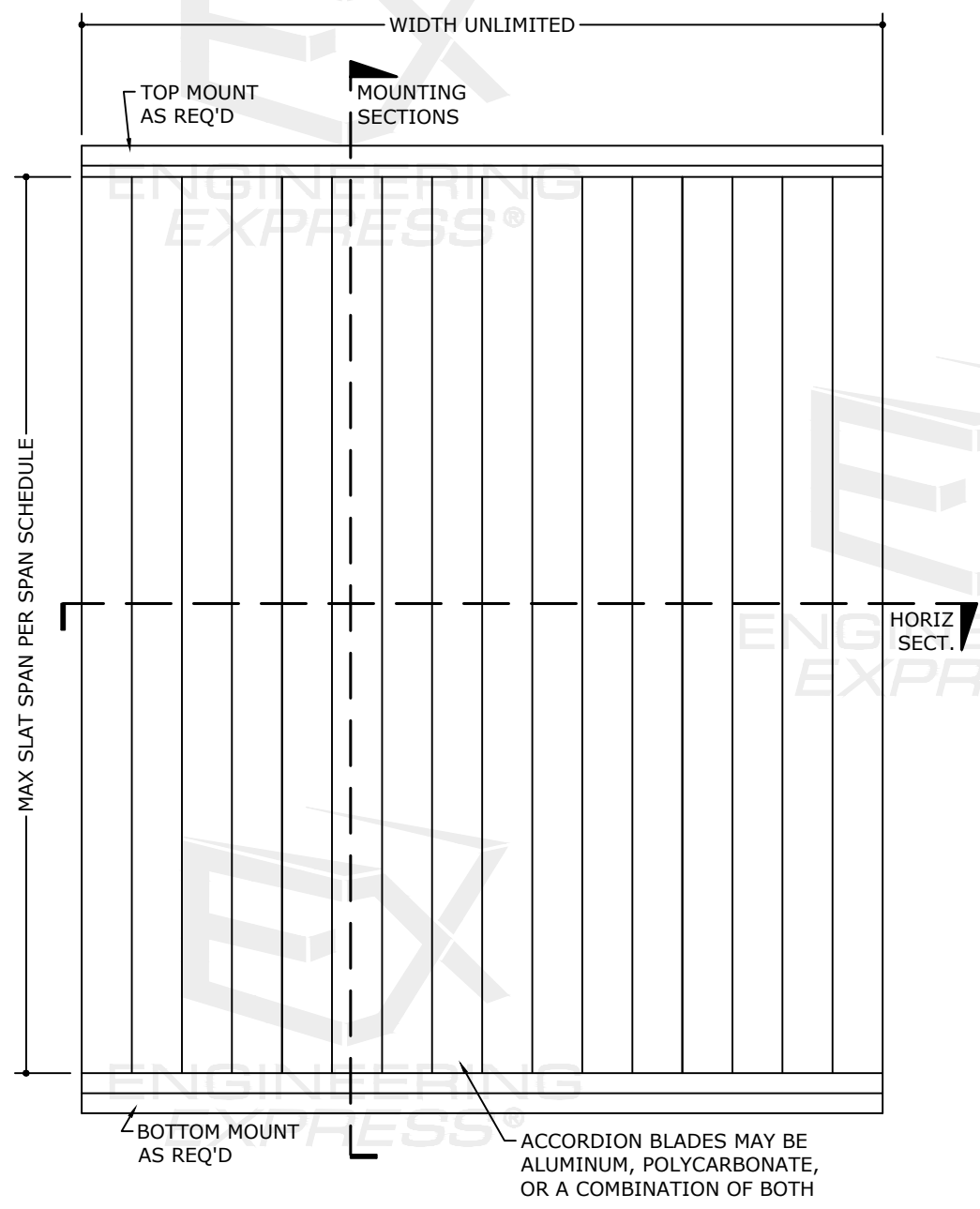


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1
1
TYPICAL ELEVATION
N.T.S. EXTERIOR ELEV

ALLOWABLE SPAN SCHEDULE

SLAT SPAN	MAXIMUM ALLOWABLE DESIGN PRESSURES							
	STANDARD BLADES ONLY		LIGHTWEIGHT BLADES OR LIGHTWEIGHT/WINDOW BLADE COMBINATION†		WINDOW BLADES OR STANDARD/ WINDOW BLADE COMBINATION†		SHUTTER WITH STANDARD BLADES AND ONE SINGLE WINDOW BLADE*	
72"	+ 152.5 PSF	- 152.5 PSF	+ 75.0 PSF	- 75.0 PSF	+ 93.6 PSF	- 93.6 PSF	+ 93.6 PSF	- 93.6 PSF
90"	+ 117.8 PSF	- 117.8 PSF	+ 75.0 PSF	- 75.0 PSF	+ 93.6 PSF	- 93.6 PSF	+ 93.6 PSF	- 93.6 PSF
108"	+ 100.5 PSF	- 100.5 PSF	+ 75.0 PSF	- 75.0 PSF	+ 93.6 PSF	- 93.6 PSF	+ 93.6 PSF	- 93.6 PSF
126"	+ 61.2 PSF	- 76.2 PSF					+ 42.4 PSF	- 62.4 PSF
144"	+ 42.4 PSF	- 62.4 PSF					+ 42.4 PSF	- 62.4 PSF
162"	+ 25.5 PSF	- 41.6 PSF					+ 25.5 PSF	- 41.6 PSF

SPAN SCHEDULE NOTES:

1. PRESSURES SHOWN IN "ALLOWABLE SPAN SCHEDULE" ARE MAXIMUM ALLOWABLE DESIGN PRESSURES AT EACH RESPECTIVE SHUTTER SPAN.
2. † APPLICABLE FOR INSTALLATIONS UTILIZING ALTERNATING BLADE PAIRS/ WINDOW BLADE PAIRS (ie ONE PAIR OF ALUMINUM BLADES WITH A PAIR OF WINDOW BLADES TO THE LEFT AND A PAIR OF WIND BLADES TO THE RIGHT).
3. * ONLY APPLICABLE FOR INSTALLATIONS WITH ONE SINGLE WINDOW BLADE SLAT, AND THE REMAINDER STANDARD BLADES.

MINIMUM GLASS SEPARATION

SPAN LESS THAN:	STANDARD BLADES ONLY		LIGHTWEIGHT BLADES OR LIGHTWEIGHT/WINDOW BLADE COMBINATION†		WINDOW BLADES OR STANDARD/ WINDOW BLADE COMBINATION†		SHUTTER WITH STANDARD BLADES AND ONE SINGLE WINDOW BLADE*	
	INSTALLATIONS 30' ABOVE GRADE OR LESS	INSTALLATIONS MORE THAN 30' ABOVE GRADE	INSTALLATIONS 30' ABOVE GRADE OR LESS	INSTALLATIONS MORE THAN 30' ABOVE GRADE	INSTALLATIONS 30' ABOVE GRADE OR LESS	INSTALLATIONS MORE THAN 30' ABOVE GRADE	INSTALLATIONS 30' ABOVE GRADE OR LESS	INSTALLATIONS MORE THAN 30' ABOVE GRADE
72"	1.88"	1.88"	2.60"	2.50"	2.63"	2.63"	4.50"	3.00"
90"	2.13"	2.13"	2.60"	2.50"	2.63"	2.63"	4.50"	3.00"
108"	2.88"	2.78"	2.60"	2.50"	2.63"	2.63"	4.50"	3.00"
126"	3.63"	3.00"					4.50"	3.00"
144"	4.50"	3.00"					4.50"	3.00"
162"	4.50"	3.00"					4.50"	3.00"

GLASS SEPARATION SCHEDULE NOTES:

1. SEPARATION FROM GLAZING SHALL BE MEASURED FROM THE PROTECTED FENESTRATION PRODUCT TO THE NEAREST POINT ON THE INTERIOR SIDE OF THE SHUTTER, WHICH MAY BE THE BLADE, CENTERMATE, OR LOCKING DEVICE.
2. † APPLICABLE FOR INSTALLATIONS UTILIZING ALTERNATING BLADE PAIRS/ WINDOW BLADE PAIRS (ie ONE PAIR OF ALUMINUM BLADES WITH A PAIR OF WINDOW BLADES TO THE LEFT AND A PAIR OF WIND BLADES TO THE RIGHT).
3. * ONLY APPLICABLE FOR INSTALLATIONS WITH ONE SINGLE WINDOW BLADE SLAT, AND THE REMAINDER STANDARD BLADES.
4. GLASS SEPARATION IS REQUIRED ONLY WITHIN THE HVHZ, ASTM WIND ZONE 4, OR ESSENTIAL FACILITIES.

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Accordion Shutter with Aluminum or Polycarbonate Blades
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FLORIDA STATEWIDE APPROVAL (FSA #12549.1)

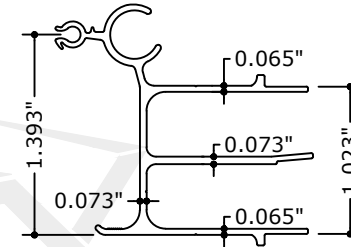
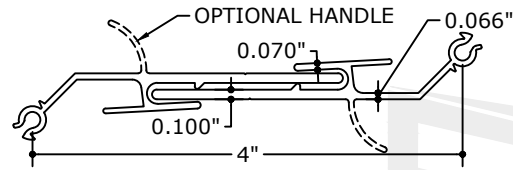
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2023 FBC UPDATE	MRT	ERJRN	08/14/23
ALT. WALL HEADER SIZE FIX	MRT	RWN	05/14/24
ALT. WALL HEADER SIZE FIX			

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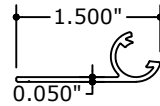
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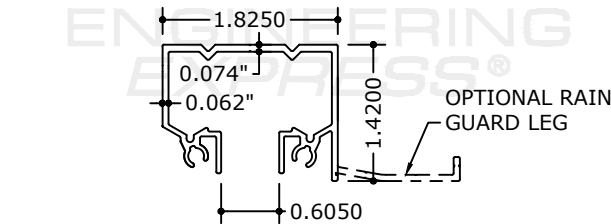
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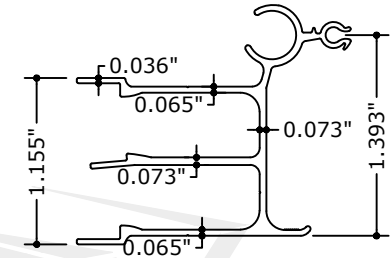
4 MALE CENTERMATE
N.T.S. 6063-T6



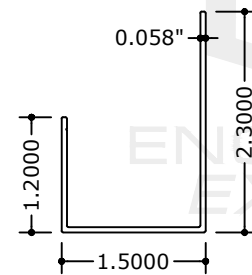
8 FLAT STARTER BLADE
N.T.S. 6063-T6



9 CEILING HEADER
N.T.S. 6063-T6

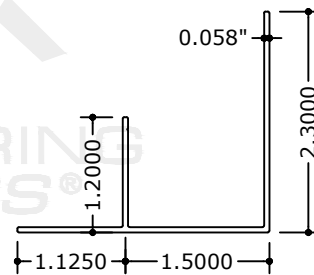


5 FEMALE CENTERMATE
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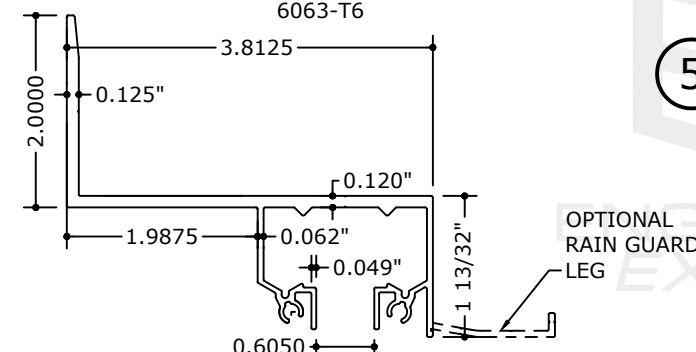


**ADJUSTABLE
SILL TRACK BOTTOM**

11 N.T.S. 6063-T6

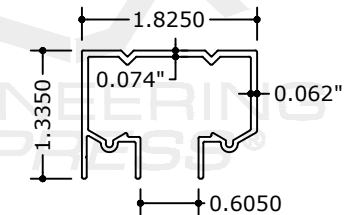


12 ALT. ADJUSTABLE
SILL TRACK BOTTOM
N.T.S. 6063-T6

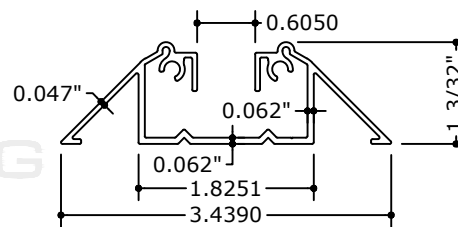


**BUILD-OUT
WALL HEADER**

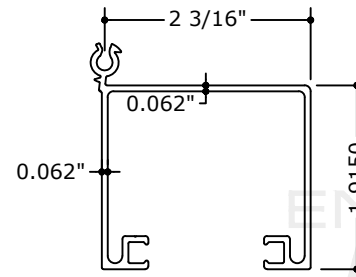
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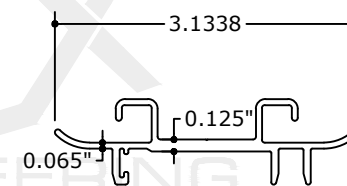
37 ALT. CEILING HEADER



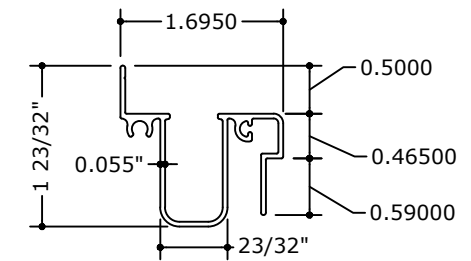
16 WALKOVER TRACK
N.T.S. 6063-T6



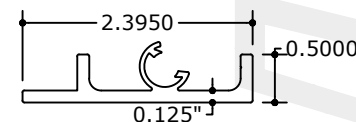
29 HIGH IMPACT CENTERMATE
N.T.S. 6063-T6



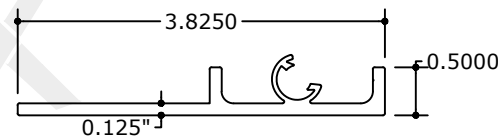
**HIGH IMPACT
CENTERMATE INSERT**



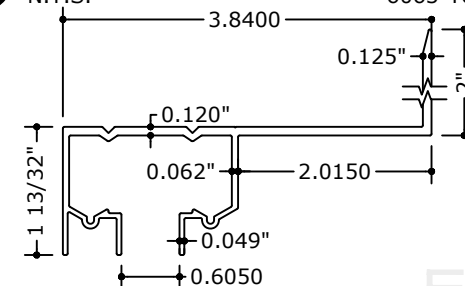
14 ADJUSTABLE
SILL TRACK TOP
N.T.S. 6063-T6



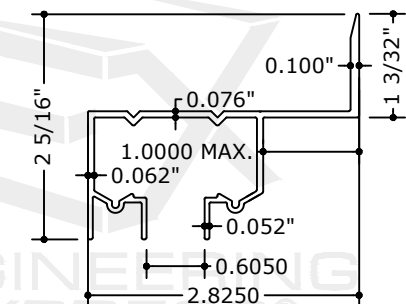
32 HEADER SIDE MOUNT



33 BUILD-OUT HEADER SIDE MOUNT



39 ALT. BUILD-OUT
WALL HEADER
N.T.S. 6063-T6



38 ALT. WALL HEADER
N.T.S. 6063-T6

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17 RECESSED TRACK
N.T.S. 6063-T5

18 PUSH-BUTTON LOCK
N.T.S. 6063-T5

19 WHEEL CARRIAGE
N.T.S. NYLON/STAINLESS STEEL

22 NYLON BUSHINGS
N.T.S. NYLON

23 LOCK ASSEMBLY
N.T.S. ZINC ALLOY/STAINLESS STEEL

24 LOCKING ARM
N.T.S. 410 STAINLESS STEEL

25 LEFT LOCKING ARM BUSHING
N.T.S. NYLON

26 RIGHT LOCKING ARM BUSHING
N.T.S. NYLON

35 2"x2"x0.125" ANGLE
N.T.S. 6063-T6

27 2"x5"x0.125" ANGLE
N.T.S. 6063-T6

28 CLEVIS AND PIN
N.T.S. CADMIUM PLATED STEEL

36 2"x3"x0.125" ANGLE
N.T.S. 6063-T6

21 WASHER
N.T.S. STAINLESS STEEL

40 ALT. HERMAPHRODITIC CENTERMATE
N.T.S. 6063-T6

34 HOOK BOLT DEAD LOCK
N.T.S. ALUMINUM

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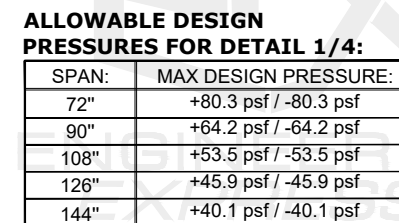
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4 OF 13



NOTE: MAXIMUM ALLOWABLE SPANS AND DESIGN PRESSURES FOR THIS MOUNTING CONDITION PER TABLE BELOW.



***NOTE:** SEPARATION FROM GLAZING SHALL BE MEASURED FROM THE PROTECTED FENESTRATION PRODUCT TO THE NEAREST POINT ON THE INTERIOR SIDE OF THE SHUTTER, WHICH MAY BE THE BLADE, CENTERMATE, OR LOCKING DEVICE.

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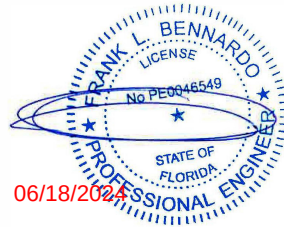
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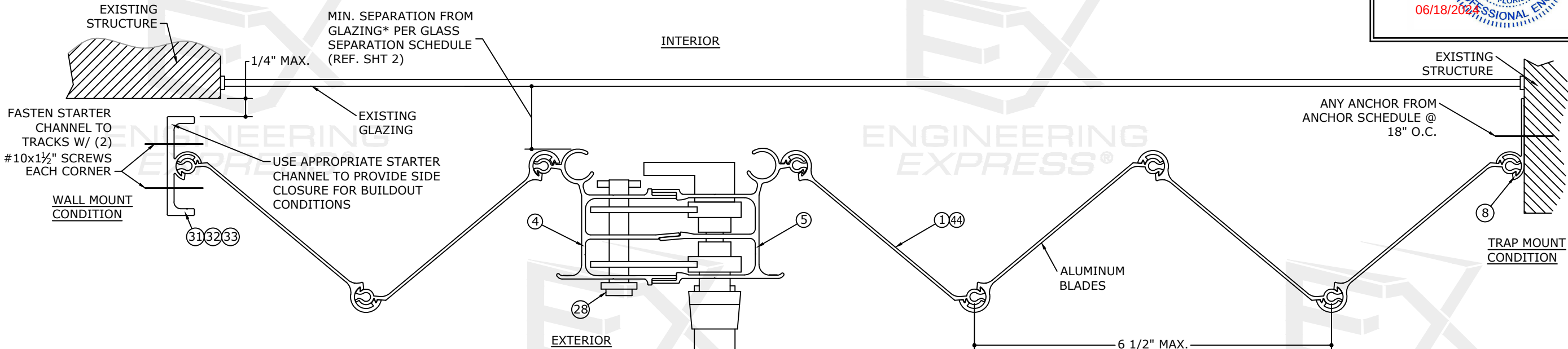
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19

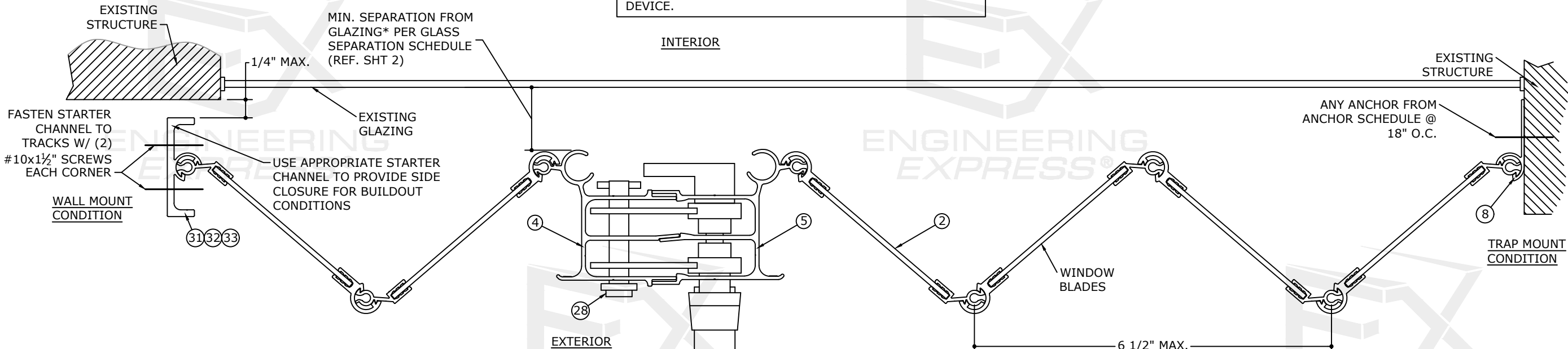


FL



1
6 HORIZONTAL SECTION
W/ ALUMINUM BLADES
N.T.S. HORIZ SECTION

***NOTE:** SEPARATION FROM GLAZING SHALL BE MEASURED FROM THE PROTECTED FENESTRATION PRODUCT TO THE NEAREST POINT ON THE INTERIOR SIDE OF THE SHUTTER, WHICH MAY BE THE BLADE, CENTERMATE, OR LOCKING DEVICE.



2
6 HORIZONTAL SECTION
W/ WINDOW BLADES
N.T.S. HORIZ SECTION

L-HANDLE LOCK ASSEMBLY WITH MALE/FEMALE CENTERMATES SHOWN (MAY BE SUBSTITUTED WITH HIGH IMPACT CENTERMATES WITH HOOK LOCK ASSEMBLY OR HERMAPHRODITIC CENTERMATES WITH PUSH-BUTTON LOCK)

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PREV. SUBMITTAL (20-27556)	CCB	RWN	07/06/20
2023 FBC UPDATE	MRT	ER/RN	08/14/23
ALT. WALL HEADER SIZE FIX	MRT	RWN	05/14/24

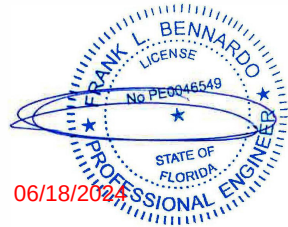
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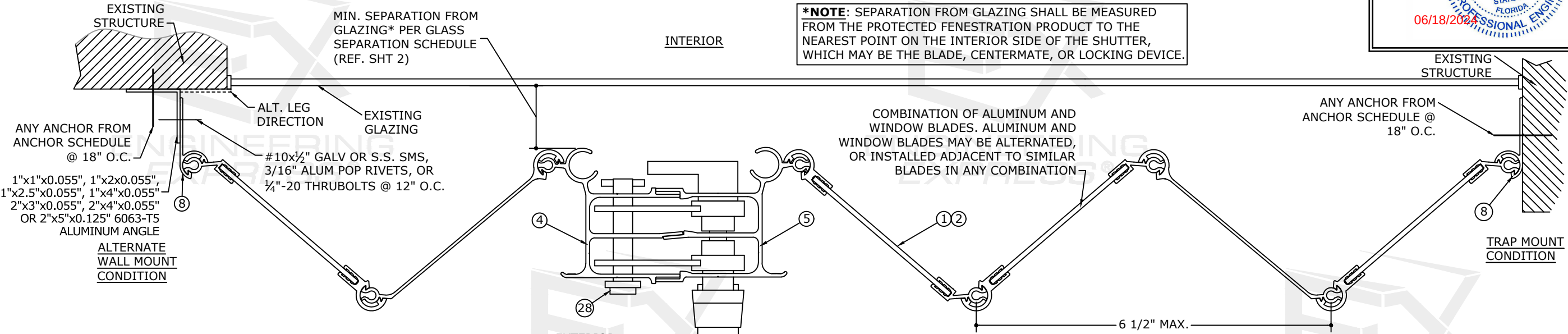
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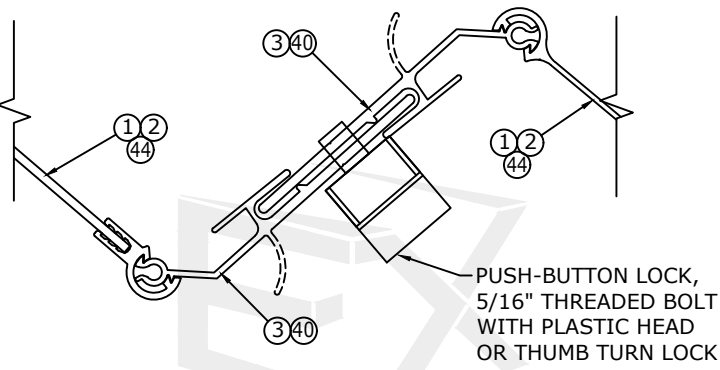
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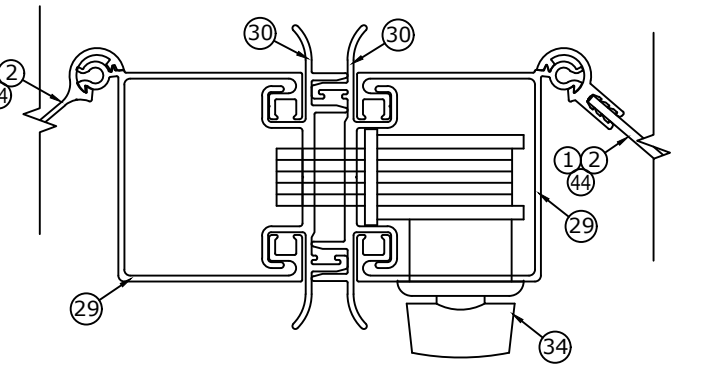
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1
7
HORIZONTAL SECTION
W/ COMBINATION BLADES
N.T.S. HORIZ SECTION



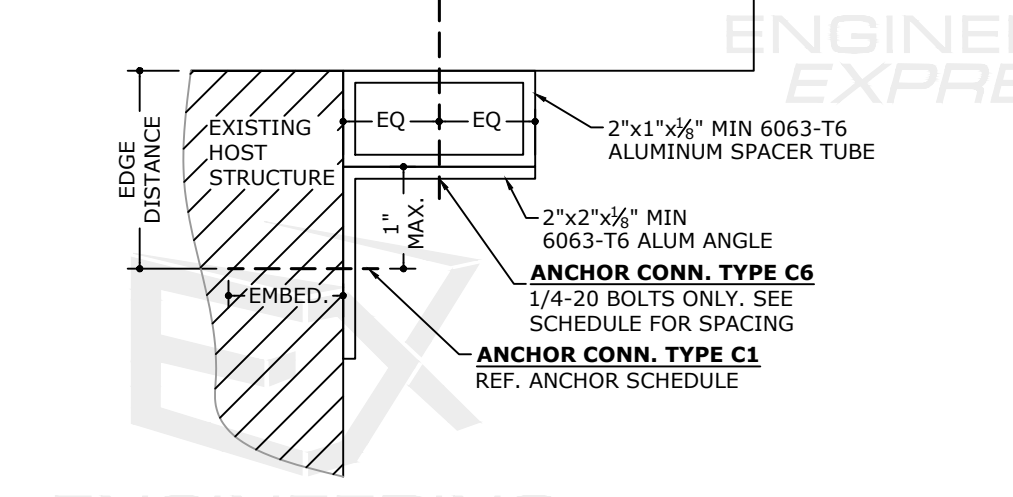
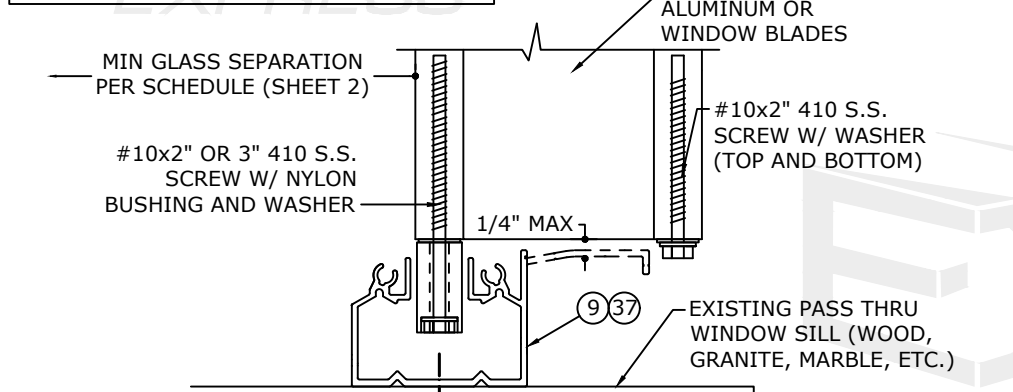
2
7
ALT. HERMAPHRODITIC
CENTERMATE
N.T.S. HORIZ SECTION



3
7
ALT. HIGH IMPACT
CENTERMATE
N.T.S. HORIZ SECTION

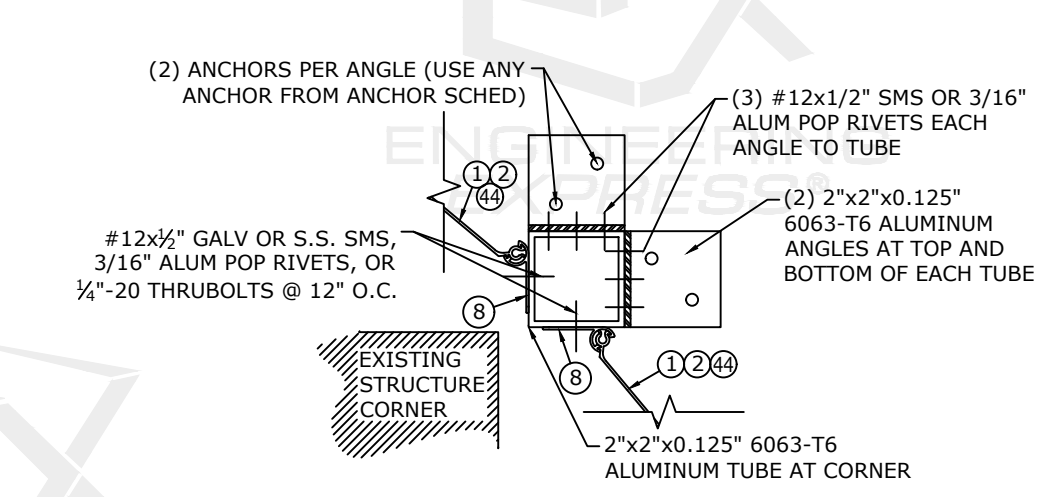
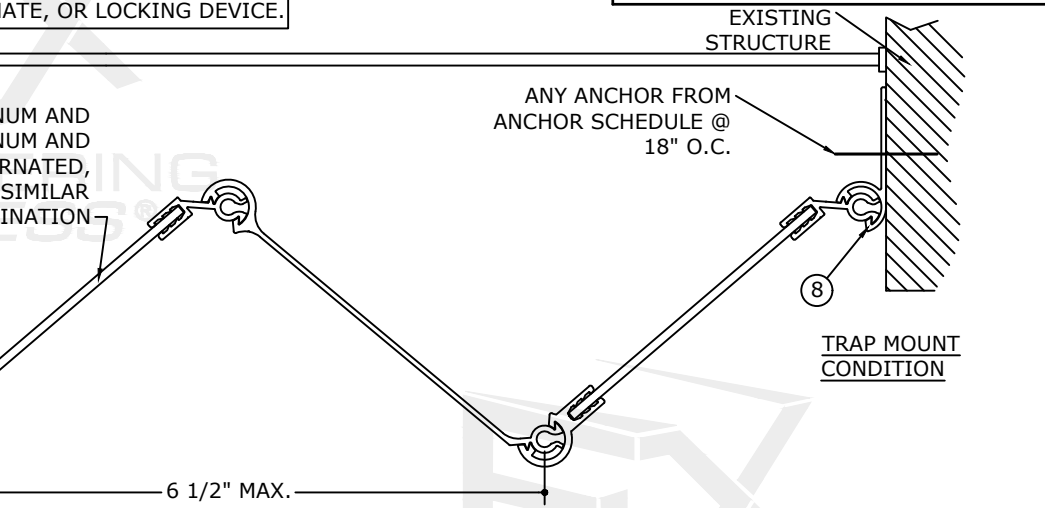
NOTE: LOCKS MAY BE MOUNTED ON INTERIOR OR EXTERIOR SIDE OF SHUTTER.

L-HANDLE LOCK ASSEMBLY WITH MALE/FEMALE CENTERMATES SHOWN (MAY BE SUBSTITUTED WITH HIGH IMPACT CENTERMATES WITH HOOK LOCK ASSEMBLY OR HERMAPHRODITIC CENTERMATES WITH PUSH-BUTTON LOCK)

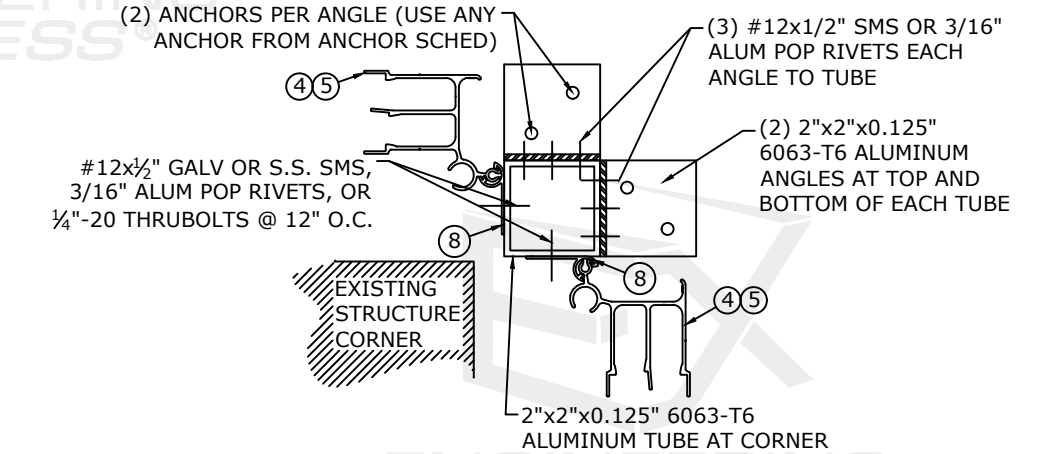


4
7
PASS THRU
WINDOW DETAIL
N.T.S. VERT SECTION

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5
7
STANDARD
CORNER CLOSURE
N.T.S. HORIZ SECTION



6
7
ALTERNATE
CORNER CLOSURE
N.T.S. HORIZ SECTION

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REMARKS	DATE	DRWN	CHKD
PREV. SUBMITTAL (20-27556)	07/06/20	CCB	RWN
2023 FBC UPDATE	08/14/23	MRT	ERJRN
ALT. WALL HEADER SIZE FIX	05/14/24	RWN	RWN

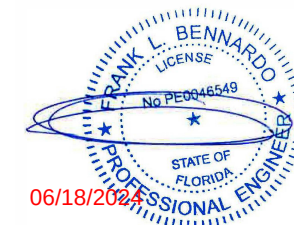
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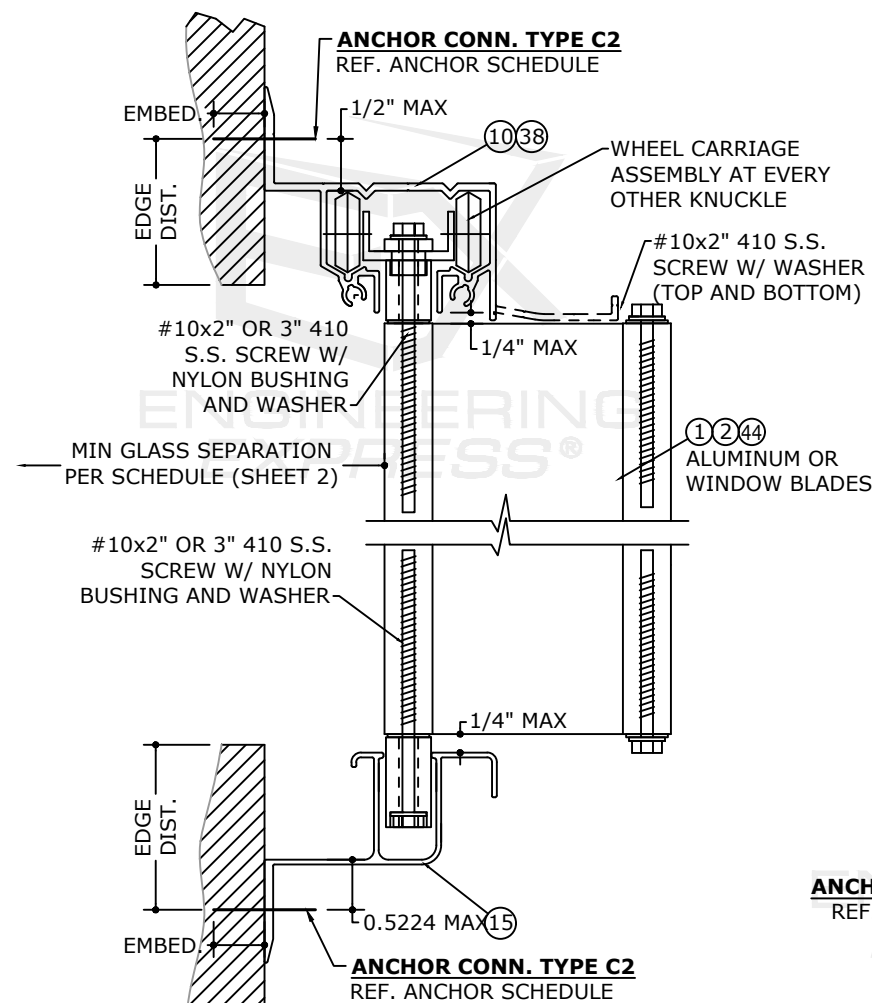
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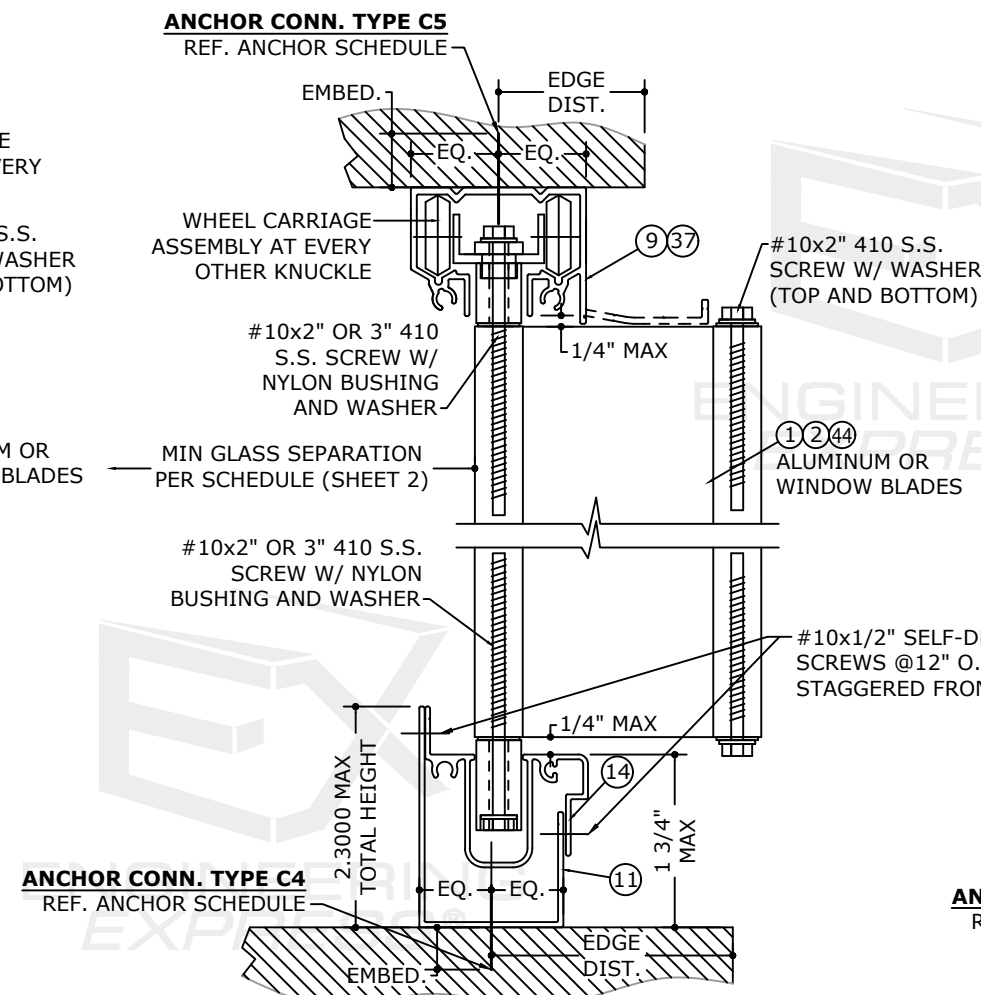
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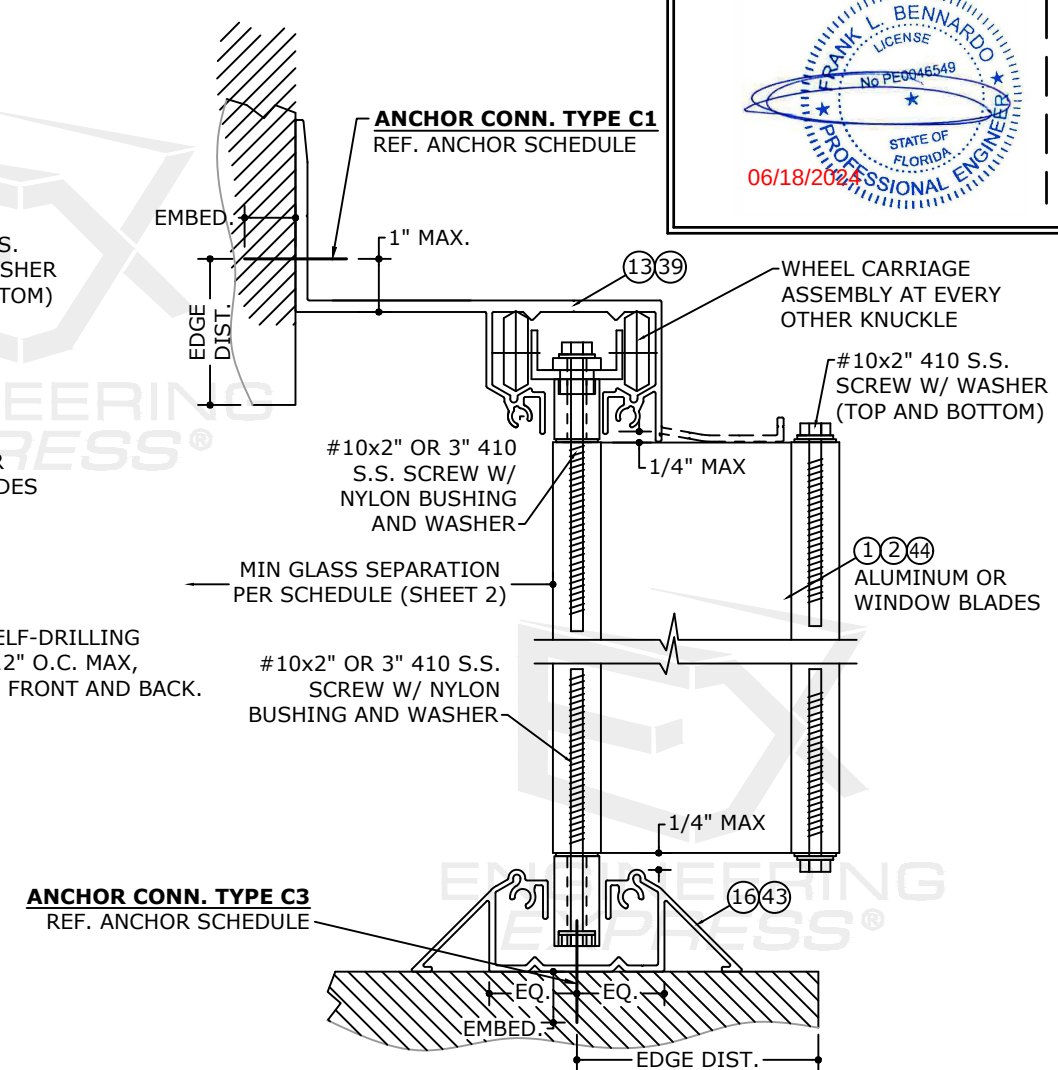
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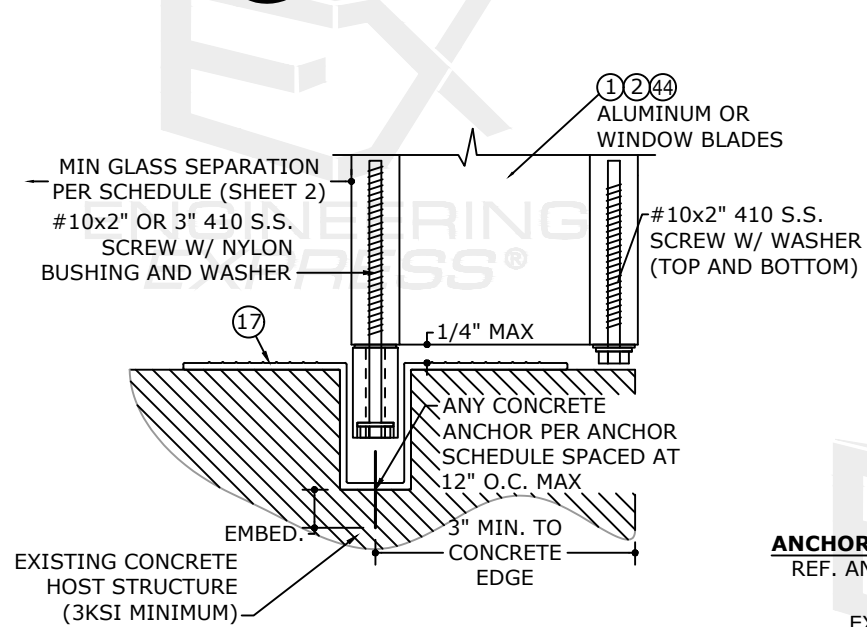
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8
WALL HEADER WALL SILL TRACK
N.T.S. VERT SECTION



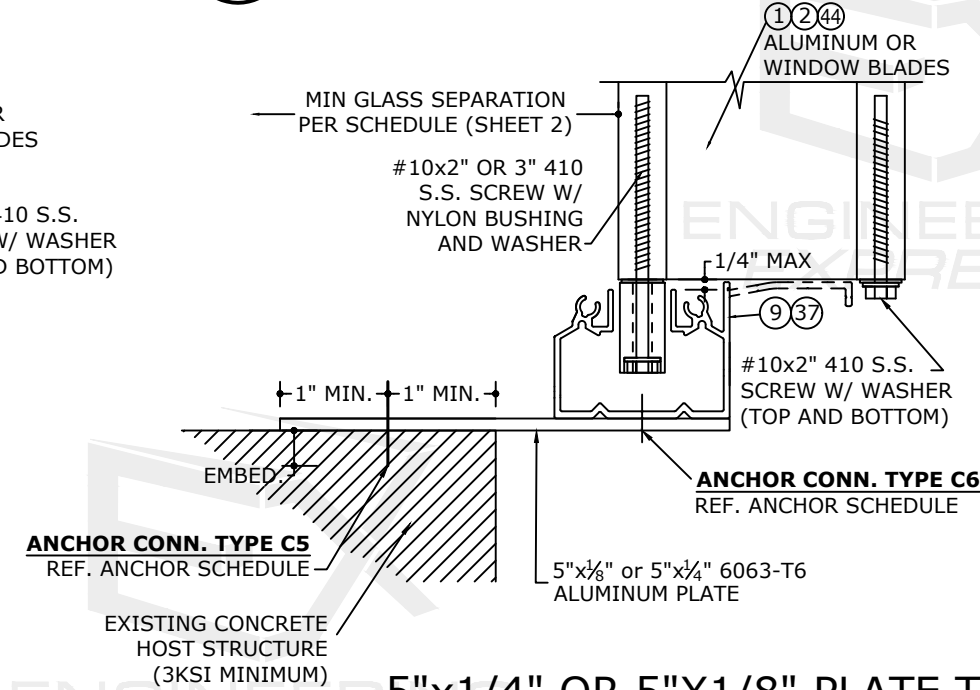
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8
CEILING HEADER ADJUSTABLE SILL TRACK
N.T.S. VERT SECTION



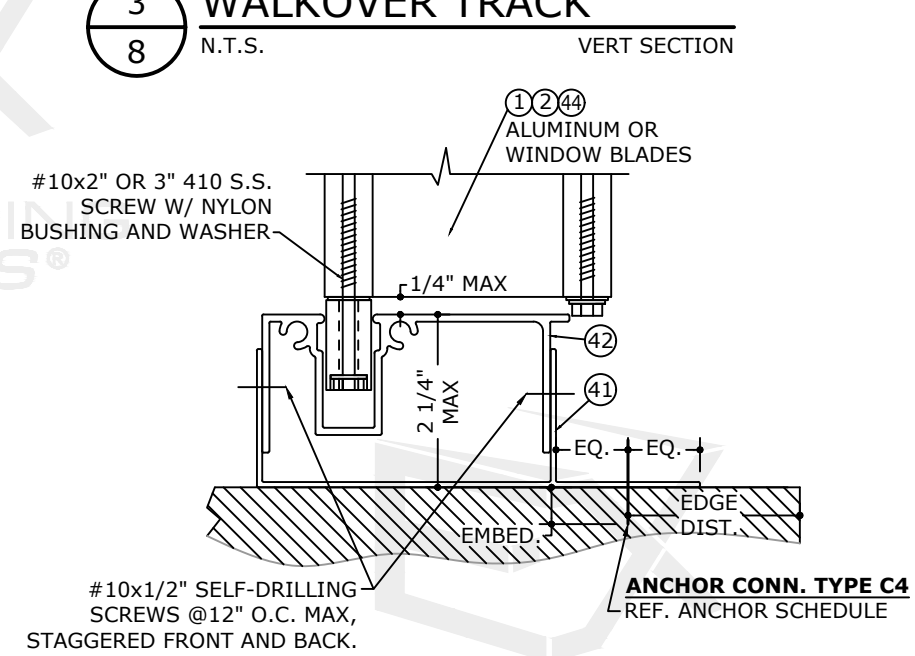
3
8
B.O. WALL HEADER WALKOVER TRACK
N.T.S. VERT SECTION



4
8
RECESSED FLOOR TRACK
N.T.S. VERT SECTION



5
8
5"x1/4" OR 5"x1/8" PLATE TO EXISTING HOST STRUCTURE
N.T.S. VERT SECTION



6
8
ALT. ADJUSTABLE SILL TRACK THRU-FLANGE INSTALLATION
N.T.S. VERT SECTION

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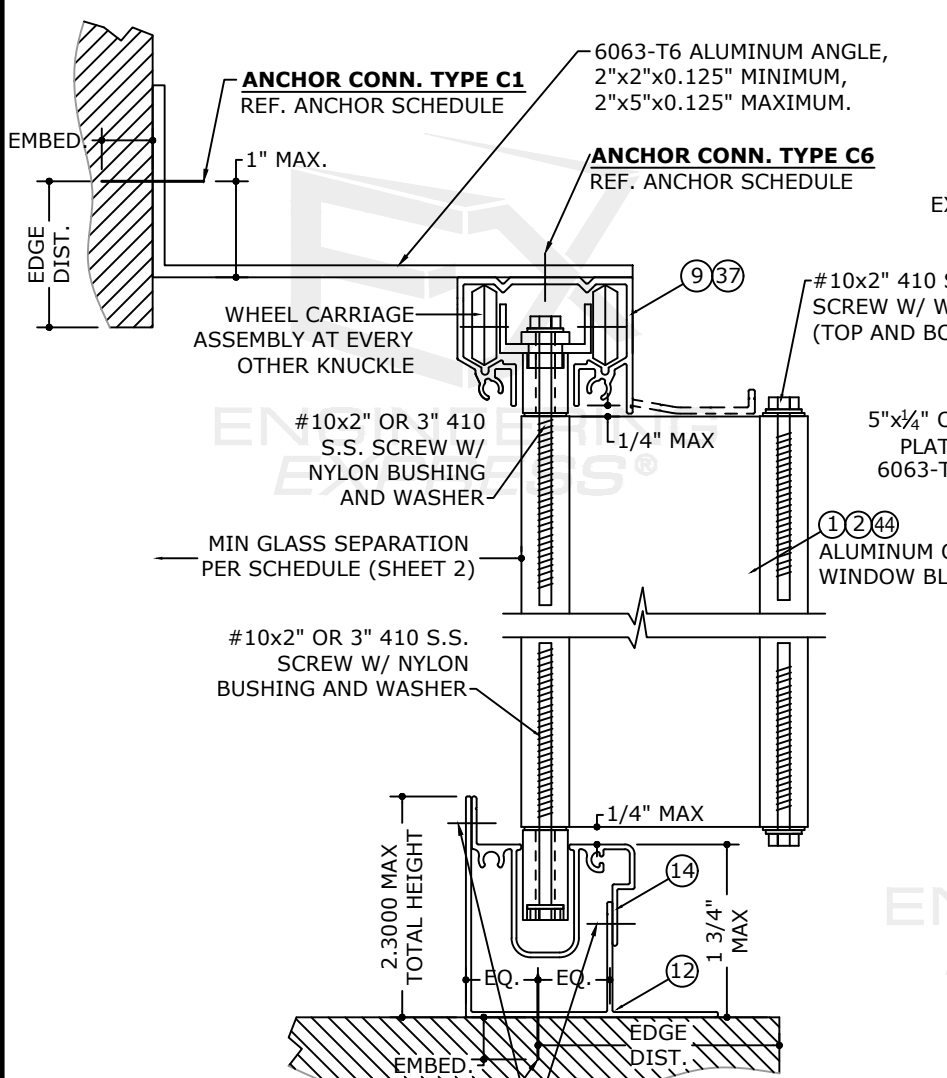
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PREV. SUBMITTAL (20-27556)	CCB	RWN	07/06/20
2023 FBC UPDATE	MRT	ERJRN	08/14/23
ALT. WALL HEADER SIZE FIX	MRT	RWN	05/14/24

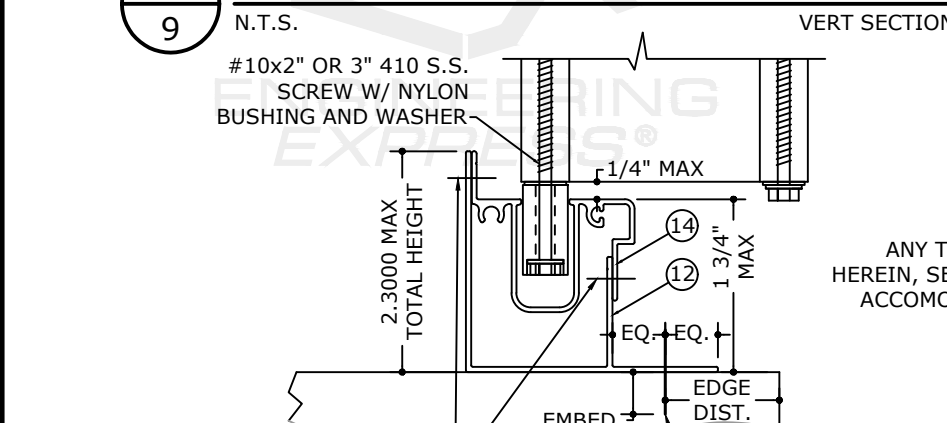
23-61406

SCALE: NTS UNLESS NOTED

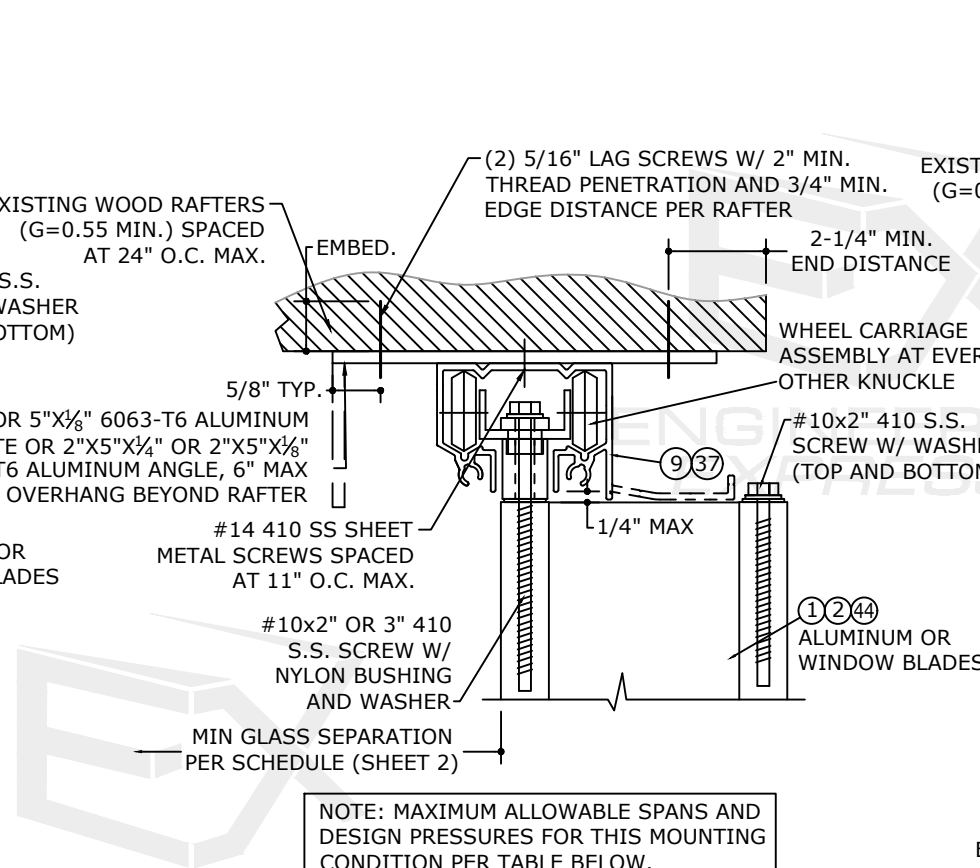
OF 13



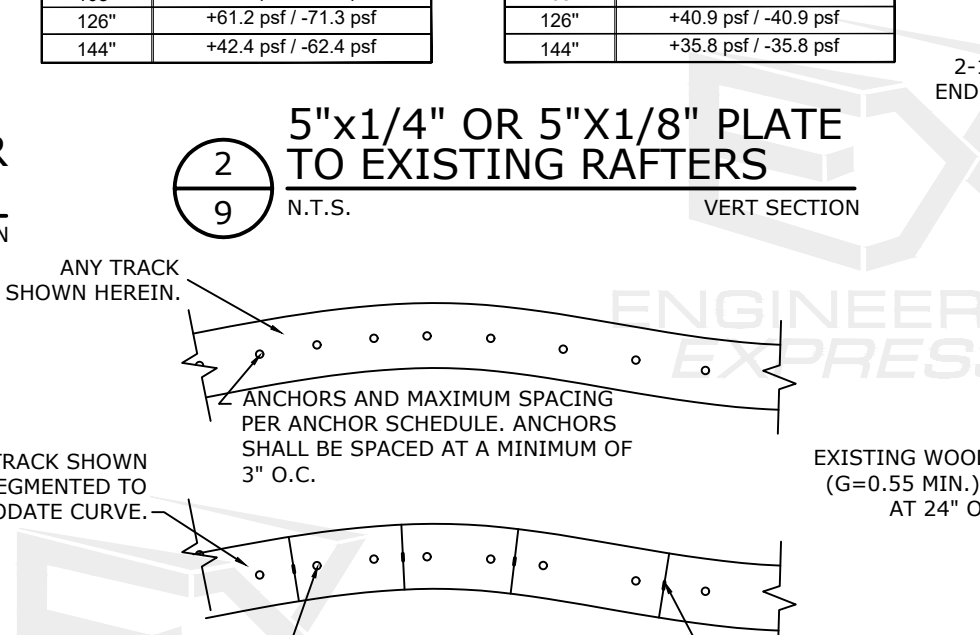
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9
**2"x5" ANGLE W/ CEILING HEADER
ALT. ADJUSTABLE SILL TRACK**
N.T.S. VERT SECTION



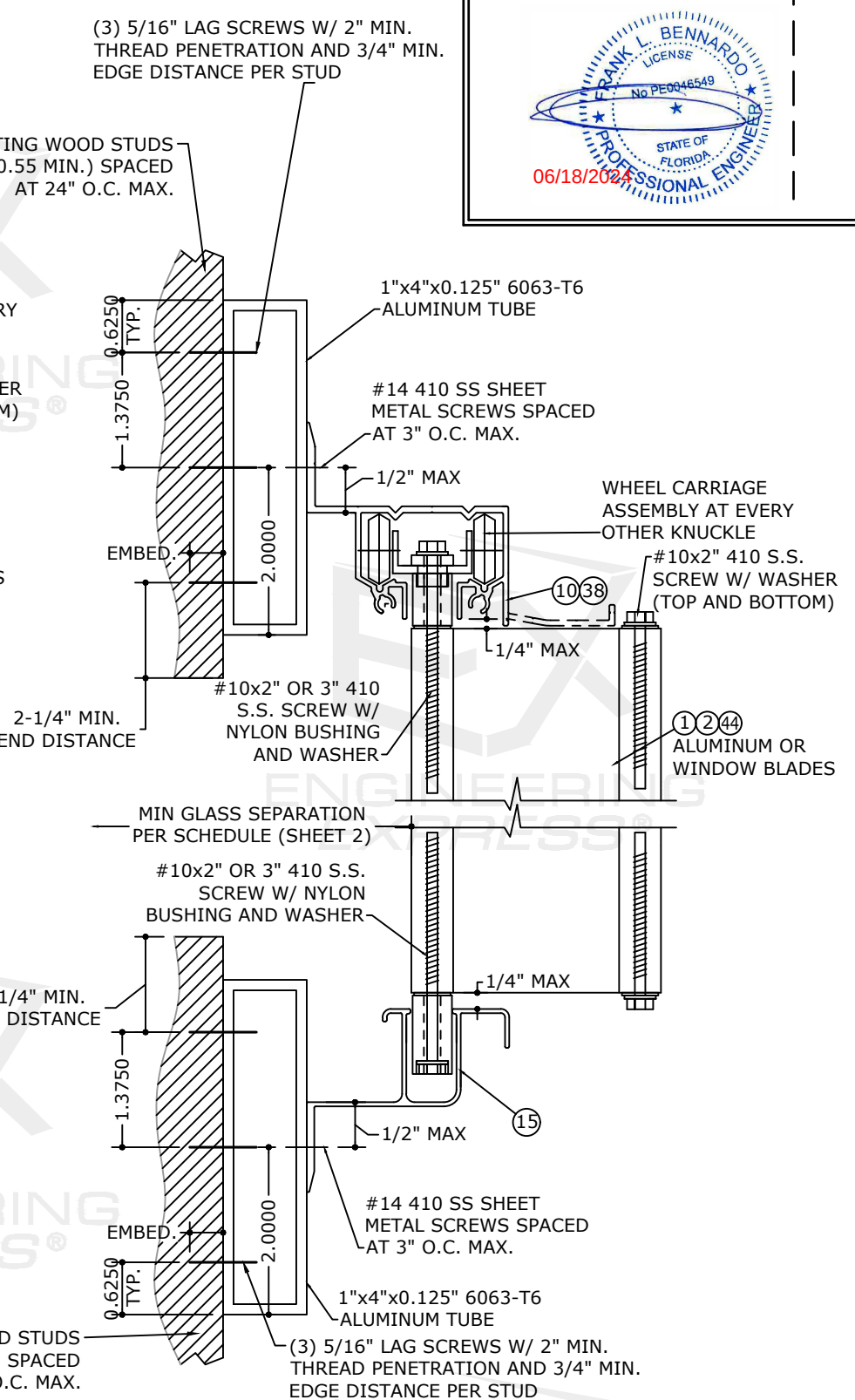
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9
**ALT. ADJUSTABLE SILL TRACK
THRU-FLANGE INSTALLATION**
N.T.S. VERT SECTION



2
9
**5"x1/4" OR 5"x1/8" PLATE
TO EXISTING RAFTERS**
N.T.S. VERT SECTION



5
9
**OPTIONAL CURVED TRACK
W/ & W/O SEGMENTED SECTIONS**
N.T.S. PLAN VIEW



3
9
**1"x4"x0.125" TUBE TO
EXISTING WALL STUDS**
N.T.S. VERT SECTION

**ALLOWABLE DESIGN PRESSURES
FOR DETAIL 2/8 WITH 1/4" ALUMINUM PLATE/ANGLE:**

SPAN:	MAX DESIGN PRESSURE:
72"	+124.8 psf / -124.8 psf
90"	+99.8 psf / -99.8 psf
108"	+83.2 psf / -83.2 psf
126"	+61.2 psf / -71.3 psf
144"	+42.4 psf / -62.4 psf

**ALLOWABLE DESIGN PRESSURES
FOR DETAIL 2/8 WITH 1/8" ALUMINUM PLATE/ANGLE:**

SPAN:	MAX DESIGN PRESSURE:
72"	+71.7 psf / -71.7 psf
90"	+57.3 psf / -57.3 psf
108"	+47.8 psf / -47.8 psf
126"	+40.9 psf / -40.9 psf
144"	+35.8 psf / -35.8 psf

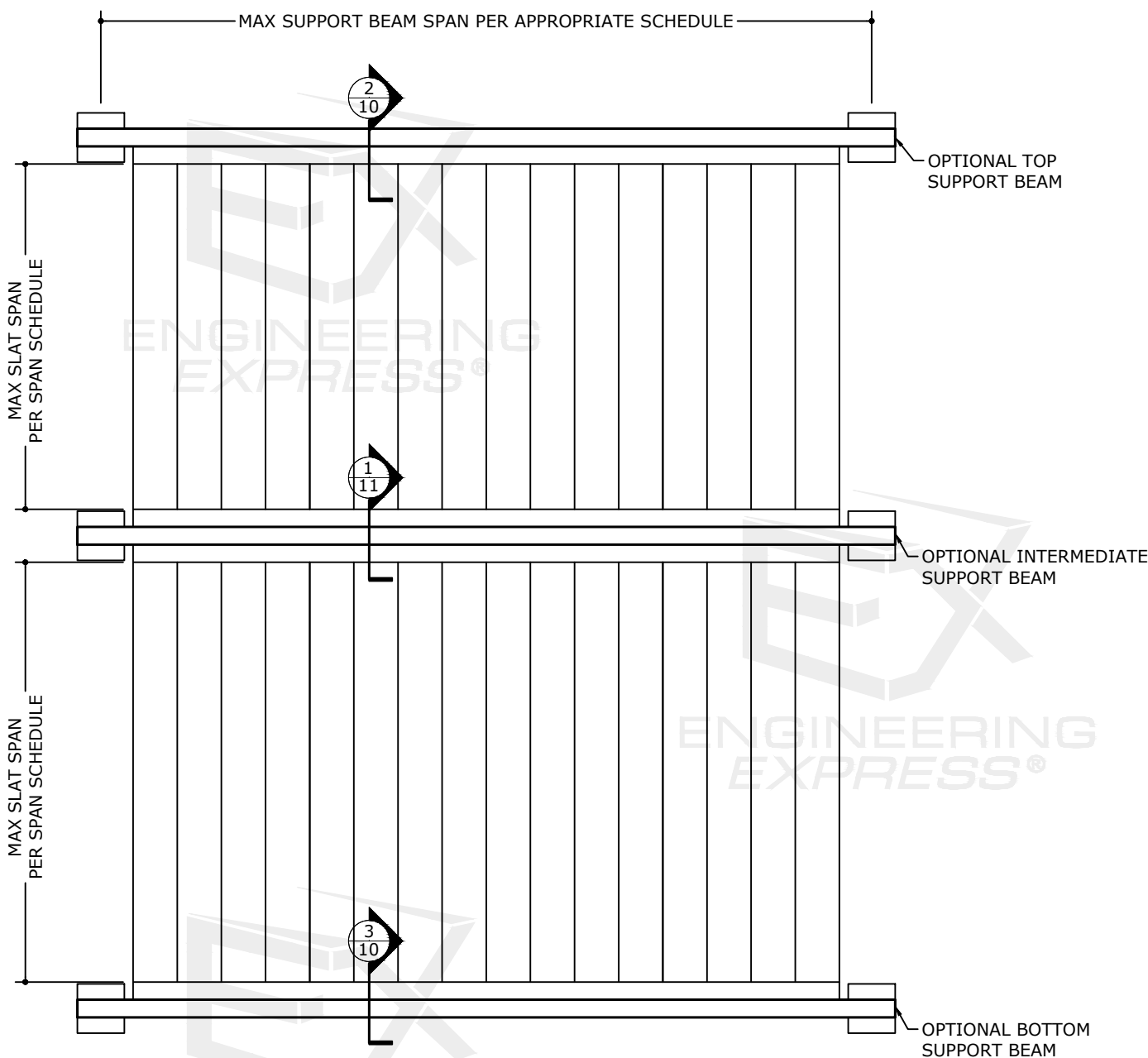
ALLOWABLE DESIGN PRESSURES FOR DETAIL 3/9:

SPAN:	MAX DESIGN PRESSURE:
72"	+111.5 psf / -111.5 psf
90"	+89.2 psf / -89.2 psf
108"	+74.3 psf / -74.3 psf
126"	+61.2 psf / -63.7 psf
144"	+42.4 psf / -55.7 psf

NOTE: MAXIMUM ALLOWABLE SPANS AND DESIGN PRESSURES FOR THIS MOUNTING CONDITION PER LEFT TABLE.

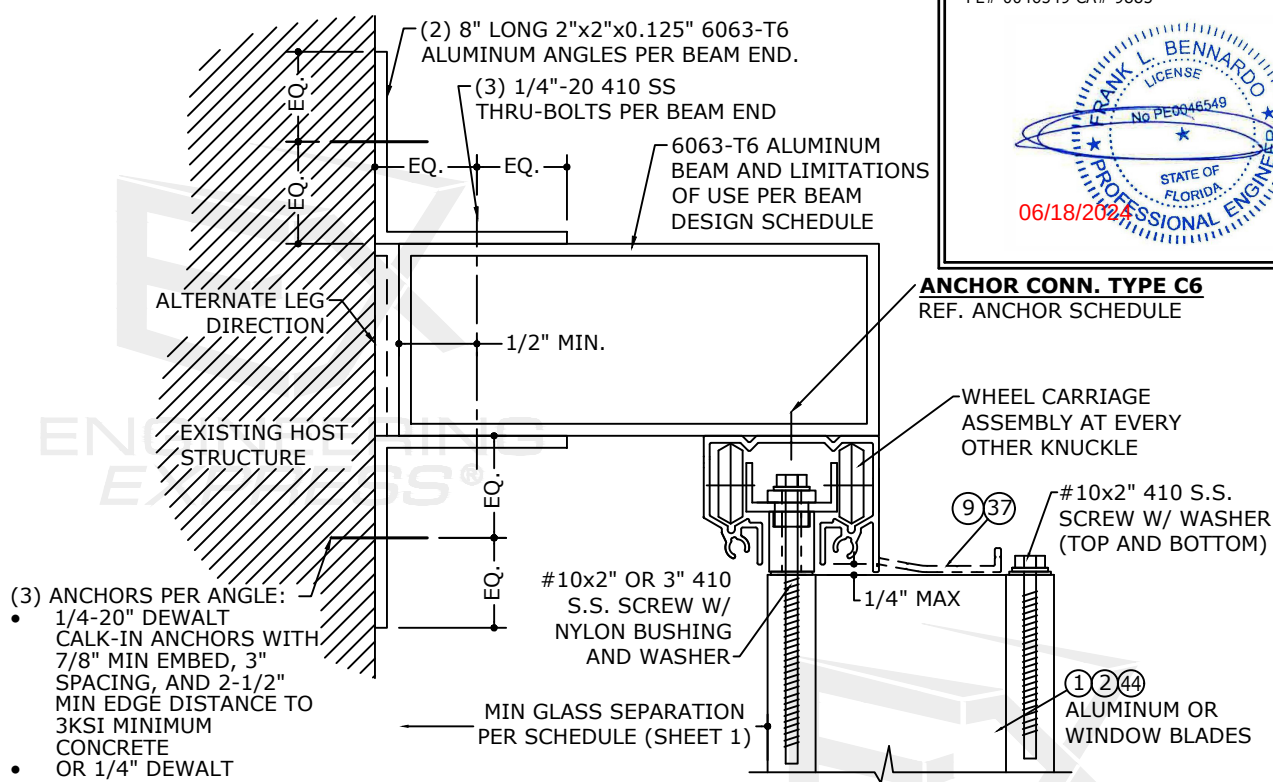
NOTE: MAXIMUM ALLOWABLE SPANS AND DESIGN PRESSURES FOR THIS MOUNTING CONDITION PER TABLE BELOW.

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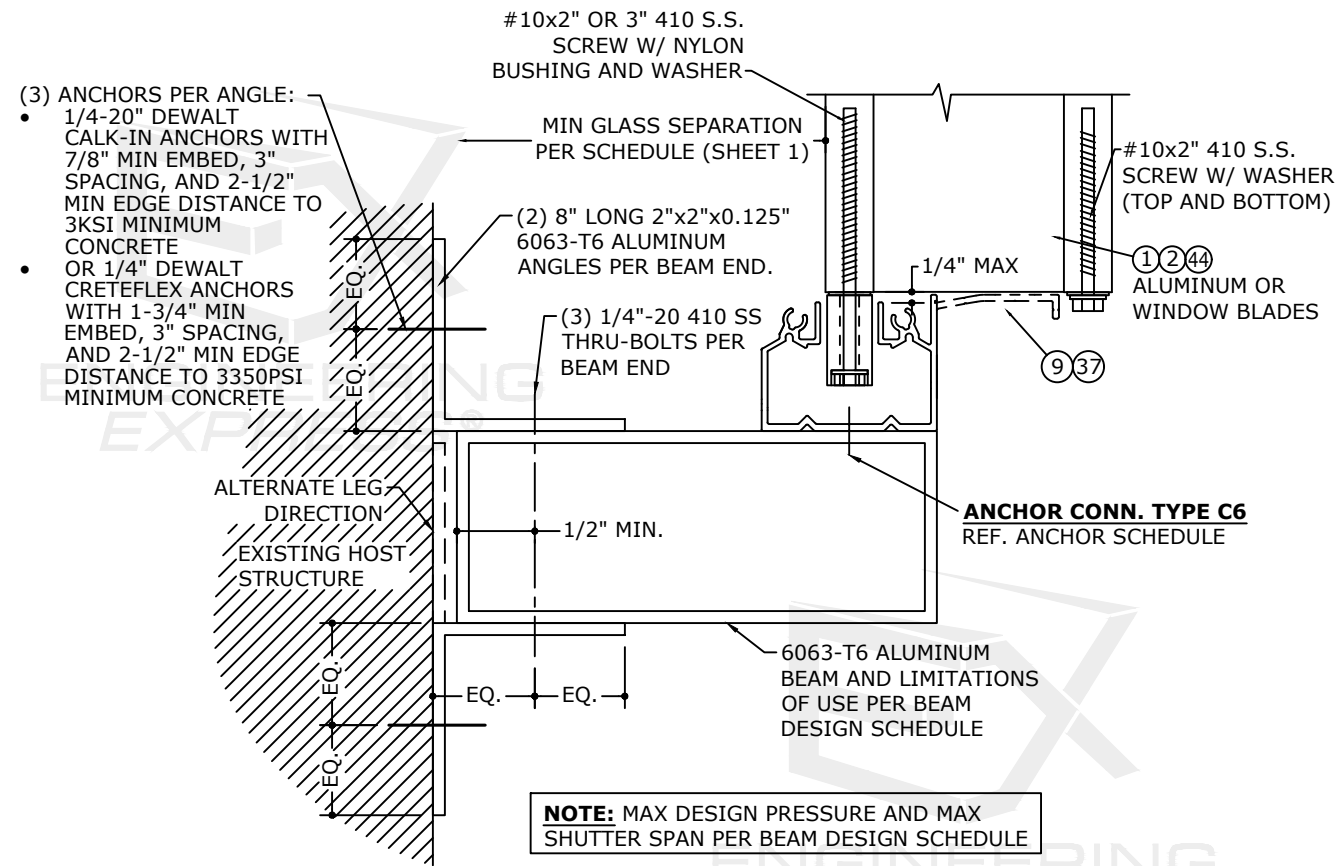


1 ELEVATION WITH STORM BARS
N.T.S. EXTERIOR ELEV

BEAM DESIGN SCHEDULE					
BEAM SIZE	SHUTTER SPAN	BEAM SPAN	ALLOWABLE DESIGN PRESSURE		
			TOP BEAM	BOTTOM BEAM	INTERMEDIATE BEAM
2"x5"x0.125"	5'-0"	9'-5"	74.0 PSF	74.0 PSF	37.0 PSF
	8'-0"	8'-1"	73.0 PSF	73.0 PSF	36.0 PSF
	10'-0"	7'-6"	73.0 PSF	73.0 PSF	36.0 PSF
2"x8"x0.072"/0.224"	5'-0"	14'-0"	68.4 PSF	81.0 PSF	34.2 PSF
	8'-0"	11'-6"	61.8 PSF	83.1 PSF	30.9 PSF
	10'-0"	10'-4"	61.1 PSF	82.3 PSF	30.5 PSF
2"x9"x0.072"/0.224"	5'-0"	15'-5"	59.4 PSF	80.5 PSF	29.7 PSF
	8'-0"	12'-5"	56.3 PSF	80.4 PSF	28.2 PSF
	10'-0"	11'-2"	55.5 PSF	79.6 PSF	27.7 PSF



2 TOP SUPPORT BEAM
N.T.S. VERT SECTION



3 BOTTOM SUPPORT BEAM
N.T.S. VERT SECTION

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

FL

MAY 14, 2024

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FLORIDA STATEWIDE APPROVAL (FSA FL#12549.1)

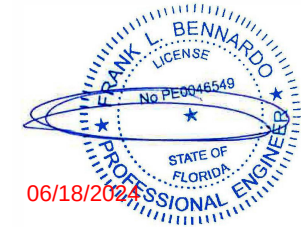
REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-27556)	CCB	RWVN	07/06/20
2023 FBC UPDATE	MRT	ERJRN	08/14/23
ALT. WALL HEADER SIZE FIX	MRT	RWVN	05/14/24

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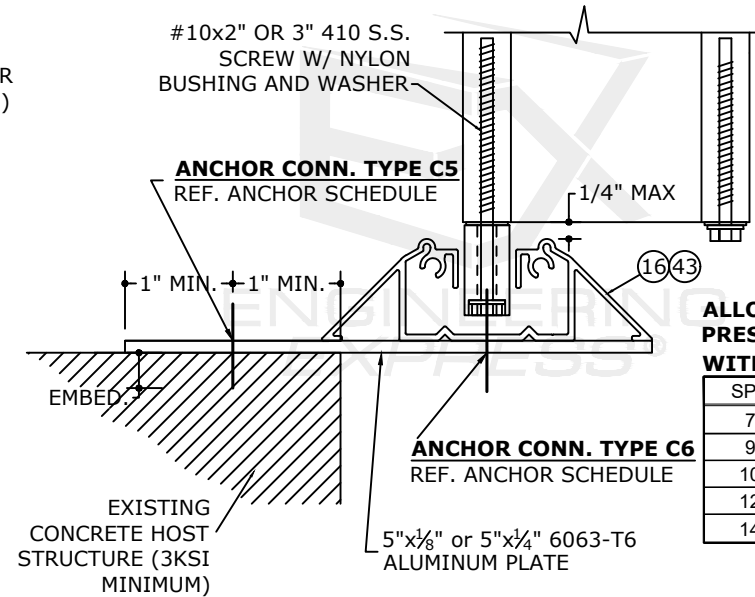
SCALE: NTS UNLESS NOTED

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13



BEAM DESIGN SCHEDULE					
BEAM SIZE	SHUTTER SPAN	BEAM SPAN	ALLOWABLE DESIGN PRESSURE		
			TOP BEAM	BOTTOM BEAM	INTERMEDIATE BEAM
2"x5"x0.125"	5'-0"	9'-5"	74.0 PSF	74.0 PSF	37.0 PSF
	8'-0"	8'-1"	73.0 PSF	73.0 PSF	36.0 PSF
	10'-0"	7'-6"	73.0 PSF	73.0 PSF	36.0 PSF
2"x8"x0.072"/0.224"	5'-0"	14'-0"	68.4 PSF	81.0 PSF	34.2 PSF
	8'-0"	11'-6"	61.8 PSF	83.1 PSF	30.9 PSF
	10'-0"	10'-4"	61.1 PSF	82.3 PSF	30.5 PSF
2"x9"x0.072"/0.224"	5'-0"	15'-5"	59.4 PSF	80.5 PSF	29.7 PSF
	8'-0"	12'-5"	56.3 PSF	80.4 PSF	28.2 PSF
	10'-0"	11'-2"	55.5 PSF	79.6 PSF	27.7 PSF



NOTE: MAXIMUM ALLOWABLE SPANS AND DESIGN PRESSURES FOR ALUMINUM PLATE MOUNTING CONDITION PER TABLE BELOW.

**ALLOWABLE DESIGN
PRESSURES FOR DETAIL 2/11
WITH 1/4" ALUMINUM PLATE:**

SPAN:	MAX DESIGN PRESSURE:
72"	+140.7 psf / -140.7 psf
90"	+112.6 psf / -112.6 psf
108"	+93.8 psf / -93.8 psf
126"	+61.2 psf / -76.2 psf
144"	+42.4 psf / -62.4 psf

ALLOWABLE DESIGN PRESSURES FOR DETAIL 2/11 WITH 1/8" ALUMINUM PLATE:

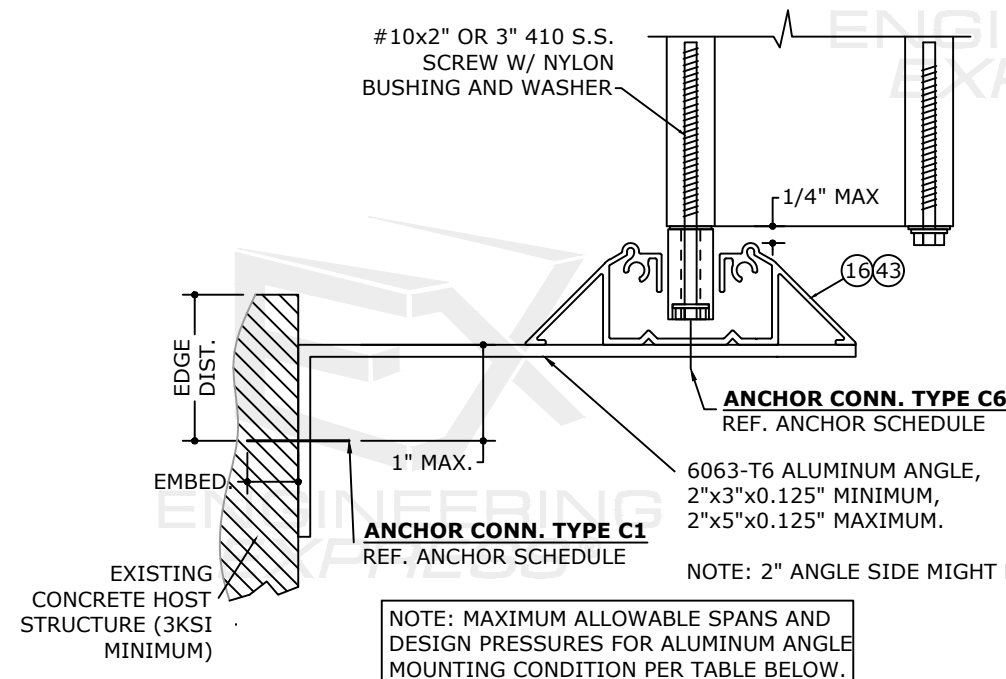
SPAN:	MAX DESIGN PRESSURE:
72"	+65.7 psf / -65.7 psf
90"	+52.5 psf / -52.5 psf
108"	+43.8 psf / -43.8 psf
126"	+37.5 psf / -37.5 psf
144"	+32.8 psf / -32.8 psf

2
11

5"x1/4" OR 5"x1/8" PLATE TO
EXISTING HOST STRUCTURE

N.T.S.

VERT SECTION



NOTE: 2" ANGLE SIDE MIGHT BE ORIENTED UP OR DOWN

NOTE: MAXIMUM ALLOWABLE SPANS AND DESIGN PRESSURES FOR ALUMINUM ANGLE MOUNTING CONDITION PER TABLE BELOW.

**ALLOWABLE DESIGN
PRESSURES FOR DETAIL 3/11
WITH 1/8" ALUMINUM ANGLE:**

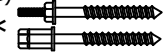
SPAN:	MAX DESIGN PRESSURE:
72"	+77.1psf / -77.1 psf
90"	+61.7 psf / -61.7 psf
108"	+53.4 psf / -53.4 psf
126"	+44.0 psf / -44.0 psf
144"	+38.5 psf / -38.5 psf


 2"x5" ANGLE W/ WALKOVER TRACK
 N.T.S.

VERT SECTION



FL

HOST STRUCT.	ANCHOR	LOAD (psf)	2.5" MIN EDGE DISTANCE																			
			Spans Up To 6'-0"					Spans Up To 9'-0"					Spans Up To 12'-0"					Spans Up To 13'-6"				
			CONN TYPE					CONN TYPE					CONN TYPE					CONN TYPE				
CONCRETE	1/4" ITW TAPCON WITH 1-3/4" EMBED (3192psi MIN CONC) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.9"	12.0"	12.0"	12.0"	12.0"	8.0"	12.0"	12.0"	11.7"	12.0"	7.0"	12.0"
		40	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	9.4"	12.0"	12.0"	11.4"	12.0"	6.9"	11.9"	12.0"	9.5"	12.0"	6.1"	10.5"
		47	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	7.9"	12.0"	11.2"	8.9"	12.0"	5.8"	10.0"	9.5"	7.6"	12.0"	5.1"	8.9"
		60	12.0"	12.0"	12.0"	9.4"	12.0"	12.0"	9.5"	12.0"	6.1"	10.5"	7.9"	6.4"	10.8"	4.5"	7.8"	6.8"	5.5"	9.7"	4.0"	6.9"
		72	12.0"	12.0"	12.0"	7.7"	12.0"	9.2"	7.4"	12.0"	5.0"	8.7"	6.2"	5.1"	9.1"	3.7"	6.5"	5.8"	4.7"	8.6"	3.5"	6.1"
		120	7.9"	6.4"	10.8"	4.5"	7.8"	5.8"	4.7"	8.6"	3.5"	6.1"	5.8"	4.7"	8.6"	3.5"	6.1"	5.8"	4.7"	8.6"	3.5"	6.1"
		152	5.8"	4.7"	8.7"	3.5"	6.1"	5.8"	4.7"	8.6"	3.5"	6.1"	5.8"	4.7"	8.6"	3.5"	6.1"	5.8"	4.7"	8.6"	3.5"	6.1"
	1/4" DEWALT PANELMATE (FEMALE, MALE) W/ 1-3/4" MIN EMBED (3350psi MIN CONC) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.3"	12.0"	12.0"	12.0"	12.0"	7.5"	12.0"	12.0"	11.6"	12.0"	6.6"	11.0"
		40	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	8.9"	12.0"	12.0"	11.3"	12.0"	6.5"	10.9"	11.9"	9.5"	12.0"	5.8"	9.6"
		47	12.0"	12.0"	12.0"	11.7"	12.0"	12.0"	12.0"	12.0"	7.5"	12.0"	11.2"	8.9"	12.0"	5.5"	9.2"	9.4"	7.5"	10.9"	4.9"	8.1"
		60	12.0"	12.0"	12.0"	8.9"	12.0"	11.9"	9.5"	12.0"	5.8"	9.6"	7.9"	6.4"	9.6"	4.3"	7.1"	6.7"	5.5"	8.6"	3.8"	6.3"
		72	12.0"	12.0"	12.0"	7.3"	12.0"	9.1"	7.3"	10.7"	4.7"	8.0"	6.2"	5.0"	8.1"	3.5"	5.9"	5.8"	4.7"	7.7"	3.3"	5.6"
		120	7.9"	6.4"	9.6"	4.3"	7.1"	5.8"	4.7"	7.7"	3.3"	5.6"	5.8"	4.7"	7.7"	3.3"	5.6"	5.8"	4.7"	7.7"	3.3"	5.6"
		152	5.8"	4.7"	7.7"	3.3"	5.6"	5.8"	4.7"	7.7"	3.3"	5.6"	5.8"	4.7"	7.7"	3.3"	5.6"	5.8"	4.7"	7.7"	3.3"	5.6"
	1/4 DEWALT CRETEFLEX W/ 1-3/4" MIN EMBED (3350psi MIN CONC) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	9.6"	12.0"	12.0"	12.0"	8.4"	12.0"	
		40	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.3"	12.0"	12.0"	12.0"	12.0"	8.3"	12.0"	12.0"	10.9"	12.0"	7.3"	12.0"
		47	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	9.5"	12.0"	12.0"	10.2"	12.0"	7.0"	12.0"	10.8"	8.7"	12.0"	6.1"	11.0"
		60	12.0"	12.0"	12.0"	11.3"	12.0"	12.0"	10.9"	12.0"	7.3"	12.0"	9.1"	7.3"	12.0"	5.4"	9.7"	7.7"	6.3"	12.0"	4.7"	8.6"
		72	12.0"	12.0"	12.0"	9.3"	12.0"	10.5"	8.4"	12.0"	6.0"	10.8"	7.1"	5.8"	11.7"	4.4"	8.0"	6.6"	5.4"	11.1"	4.2"	7.6"
		120	9.1"	7.3"	12.0"	5.4"	9.7"	6.6"	5.4"	11.1"	4.2"	7.6"	6.6"	5.4"	11.1"	4.2"	7.6"	6.6"	5.4"	11.1"	4.2"	7.6"
		152	6.6"	5.4"	11.2"	4.2"	7.6"	6.6"	5.4"	11.1"	4.2"	7.6"	6.6"	5.4"	11.1"	4.2"	7.6"	6.6"	5.4"	11.1"	4.2"	7.6"
	1/4-20 DEWALT CALK-IN WITH 7/8" MIN EMBED (3000psi MIN CONC) 	35	12.0"	12.0"	12.0"	11.4"	12.0"	12.0"	12.0"	12.0"	7.1"	12.0"	11.3"	8.7"	12.0"	5.2"	9.1"	9.2"	7.2"	11.1"	4.5"	8.1"
		40	12.0"	12.0"	12.0"	9.7"	12.0"	12.0"	11.5"	12.0"	6.1"	10.7"	8.9"	7.0"	10.9"	4.5"	7.9"	7.4"	5.9"	9.8"	3.9"	7.0"
		47	12.0"	12.0"	12.0"	8.0"	12.0"	11.1"	8.6"	12.0"	5.1"	9.1"	6.9"	5.5"	9.4"	3.8"	6.7"	5.8"	4.7"	8.4"	3.3"	5.9"
		60	12.0"	11.5"	12.0"	6.1"	10.7"	7.4"	5.9"	9.8"	3.9"	7.0"	4.9"	4.0"	7.5"		5.2"	4.2"	3.4"	6.7"		4.6"
		72	10.7"	8.3"	12.0"	5.0"	8.9"	5.7"	4.5"	8.3"	3.2"	5.8"	3.8"	3.1"	6.3"		4.3"	3.6"		6.0"		4.1"
		120	4.9"	4.0"	7.5"		5.2"	3.6"		6.0"		4.1"	3.6"		6.0"		4.1"	3.6"		6.0"		4.1"
		152	3.6"		6.0"		4.1"	3.6"		6.0"		4.1"	3.6"		6.0"		4.1"	3.6"		6.0"		4.1"
	1/4 DEWALT PANELMATE INSERT WITH 1-5/8" MIN EMBED (3000psi MIN CONC) 	35	12.0"	12.0"	12.0"	10.7"	12.0"	12.0"	12.0"	12.0"	6.7"	11.2"	11.5"	8.9"	10.7"	4.9"	8.2"	9.4"	7.3"	9.6"	4.3"	7.3"
		40	12.0"	12.0"	12.0"	9.2"	12.0"	12.0"	11.7"	12.0"	5.8"	9.7"	9.1"	7.2"	9.5"	4.2"	7.2"	7.5"	6.0"	8.5"	3.7"	6.3"
		47	12.0"	12.0"	12.0"	7.6"	12.0"	11.3"	8.8"	10.6"	4.9"	8.2"	7.1"	5.6"	8.1"	3.6"	6.1"	5.9"	4.8"	7.3"	3.1"	5.4"
		60	12.0"	11.7"	12.0"	5.8"	9.7"	7.5"	6.0"	8.5"	3.7"	6.3"	5.0"	4.0"	6.5"		4.7"	4.3"	3.5"	5.8"		4.2"
		72	10.9"	8.5"	10.4"	4.7"	8.0"	5.8"	4.6"	7.1"	3.1"	5.3"	3.9"	3.2"	5.4"		3.9"	3.6"		5.1"		3.7"
		120	5.0"	4.0"	6.5"		4.7"	3.6"		5.1"		3.7"	3.6"		5.1"		3.7"	3.6"		5.1"		3.7"
		152	3.7"		5.2"		3.7"	3.6"		5.1"		3.7"	3.6"		5.1"		3.7"	3.6"		5.1"		3.7"

ANCHOR NOTES:

- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- TAPCONS SHALL BE 410 STAINLESS STEEL AND SHALL BE MANUFACTURED BY ITW.
- ENSURE MINIMUM 2.5" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE & TO HOLLOW BLOCK.
- ALL CONCRETE ANCHOR SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.
- WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
- WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
-  DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.
- * DESIGNATES ANCHORS WHICH ARE REMOVABLE.

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Accordion Shutter with Aluminum or Polycarbonate Blades
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
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REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-27556)	CCB	RWN	07/06/20
2023 FBC UPDATE	MRT	ER/RN	08/14/23
ALT. WALL HEADER SIZE FIX	MRT	RWN	05/14/24

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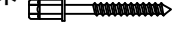
23-61406

SCALE: NTS UNLESS NOTED

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HOST STRUCT.	ANCHOR	LOAD (psf)	2.5" MIN EDGE DISTANCE																			
			Spans Up To 6'-0"					Spans Up To 9'-0"					Spans Up To 12'-0"					Spans Up To 13'-6"				
			CONN TYPE					CONN TYPE					CONN TYPE					CONN TYPE				
HOLLOW BLOCK	1/4" ITW TAPCON WITH 1-1/4" EMBED 	35	12.0"	12.0"	11.2"	4.9"	9.1"	7.9"	5.7"	8.1"	3.0"	5.8"	4.3"	3.3"	6.3"		4.3"	3.5"		5.7"		3.8"
		40	12.0"	12.0"	10.1"	4.2"	7.9"	5.8"	4.4"	7.2"		5.0"	3.4"		5.6"		3.7"			5.1"		3.3"
		47	10.7"	7.4"	8.8"	3.4"	6.6"	4.2"	3.3"	6.3"		4.2"			4.9"		3.1"			4.4"		
		60	5.8"	4.4"	7.2"		5.0"			5.1"		3.3"			3.9"					3.5"		
		72	4.1"	3.2"	6.2"		4.2"			4.3"					3.3"					3.1"		
		120			3.9"					3.1"					3.1"					3.1"		
		152			3.1"					3.1"					3.1"					3.1"		
	1/4" DEWALT PANELMATE (FEMALE, MALE) W/ 1-1/4" MIN EMBED 	35	12.0"	12.0"	12.0"	7.1"	11.7"	12.0"	9.7"	9.6"	4.4"	7.6"	7.3"	5.6"	7.4"	3.2"	5.6"	5.9"	4.7"	6.6"		4.9"
		40	12.0"	12.0"	12.0"	6.1"	10.1"	9.9"	7.4"	8.5"	3.8"	6.6"	5.8"	4.5"	6.6"		4.9"	4.8"	3.8"	5.9"		4.3"
		47	12.0"	12.0"	10.6"	5.0"	8.5"	7.2"	5.6"	7.4"	3.2"	5.5"	4.5"	3.6"	5.6"		4.1"	3.8"	3.0"	5.1"		3.6"
		60	9.9"	7.4"	8.5"	3.8"	6.6"	4.8"	3.8"	5.9"		4.3"	3.2"		4.5"		3.2"			4.0"		
		72	6.9"	5.4"	7.2"	3.1"	5.4"	3.7"		5.0"		3.6"			3.8"					3.6"		
		120	3.2"		4.5"		3.2"			3.6"					3.6"					3.6"		
		152			3.6"					3.6"			2.3"		3.6"					3.6"		
	1/4 DEWALT CRETEFLEX W/ 1-1/4" MIN EMBED 	35	12.0"	12.0"	12.0"	8.3"	12.0"	12.0"	10.9"	11.9"	5.2"	9.2"	8.1"	6.3"	9.2"	3.8"	6.8"	6.6"	5.2"	8.3"	3.3"	6.0"
		40	12.0"	12.0"	12.0"	7.1"	12.0"	11.0"	8.3"	10.6"	4.5"	8.0"	6.5"	5.1"	8.2"	3.3"	5.9"	5.4"	4.2"	7.3"		5.2"
		47	12.0"	12.0"	12.0"	5.9"	10.3"	8.0"	6.2"	9.2"	3.8"	6.7"	5.0"	4.0"	7.1"		5.0"	4.2"	3.4"	6.3"		4.4"
		60	11.0"	8.3"	10.6"	4.5"	8.0"	5.4"	4.2"	7.3"		5.2"	3.5"		5.6"		3.9"	3.0"		5.0"		3.4"
		72	7.7"	6.0"	9.0"	3.7"	6.6"	4.1"	3.3"	6.2"		4.3"			4.7"		3.2"			4.5"		3.0"
		120	3.5"		5.6"		3.9"			4.5"		3.0"			4.5"		3.0"			4.5"		3.0"
		152			4.5"		3.0"			4.5"		3.0"			4.5"		3.0"			4.5"		3.0"
	1/4-20 ALL POINTS SOLID SET WITH 7/8" MIN EMBED 	35	12.0"	12.0"	12.0"	9.6"	12.0"	12.0"	12.0"	6.0"	10.1"	10.1"	7.8"	9.8"	4.4"	7.5"	8.2"	6.4"	8.8"	3.9"	6.6"	
		40	12.0"	12.0"	12.0"	8.2"	12.0"	12.0"	10.2"	11.3"	5.2"	8.8"	8.0"	6.3"	8.7"	3.8"	6.5"	6.6"	5.2"	7.8"	3.3"	5.8"
		47	12.0"	12.0"	12.0"	6.8"	11.4"	9.9"	7.7"	9.8"	4.3"	7.4"	6.2"	4.9"	7.5"	3.2"	5.5"	5.2"	4.2"	6.7"		4.9"
		60	12.0"	10.2"	11.3"	5.2"	8.8"	6.6"	5.2"	7.8"	3.3"	5.8"	4.4"	3.5"	5.9"		4.3"	3.7"	3.0"	5.3"		3.8"
		72	9.6"	7.4"	9.6"	4.2"	7.3"	5.0"	4.1"	6.6"		4.8"	3.4"		5.0"		3.6"	3.2"		4.7"		3.4"
		120	4.4"	3.5"	5.9"		4.3"	3.2"		4.7"		3.4"	3.2"		4.7"		3.4"	3.2"		4.7"		3.4"
		152	3.2"		4.7"		3.4"	3.2"		4.7"		3.4"	3.2"		4.7"		3.4"	3.2"		4.7"		3.4"
	1/4 DEWALT PANELMATE INSERT WITH 1-1/4" MIN EMBED 	35	12.0"	12.0"	12.0"	8.6"	12.0"	12.0"	12.0"	11.1"	5.4"	8.9"	9.2"	7.1"	8.6"	3.9"	6.6"	7.5"	5.9"	7.7"	3.4"	5.8"
		40	12.0"	12.0"	12.0"	7.3"	11.9"	12.0"	9.4"	9.9"	4.6"	7.7"	7.3"	5.7"	7.6"	3.4"	5.7"	6.0"	4.8"	6.8"		5.1"
		47	12.0"	12.0"	12.0"	6.1"	10.0"	9.1"	7.0"	8.5"	3.9"	6.5"	5.7"	4.5"	6.5"		4.9"	4.8"	3.8"	5.8"		4.3"
		60	12.0"	9.4"	9.9"	4.6"	7.7"	6.0"	4.8"	6.8"		5.1"	4.0"	3.2"	5.2"		3.8"	3.4"		4.6"		3.3"
		72	8.7"	6.8"	8.3"	3.8"	6.4"	4.6"	3.7"	5.7"		4.2"	3.1"		4.3"		3.1"			4.1"		
		120	4.0"	3.2"	5.2"		3.8"			4.1"					4.1"					4.1"		
		152			4.1"					4.1"					4.1"					4.1"		

HOST STRUCT.	ANCHOR	LOAD (psf)	3/4" MIN EDGE DISTANCE																			
			Spans Up To 6'-0"					Spans Up To 9'-0"					Spans Up To 12'-0"					Spans Up To 13'-6"				
			CONN TYPE					CONN TYPE					CONN TYPE					CONN TYPE				
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
WOOD	1/4" ITW TAPCON OR #14 WOOD SCREW W/ 1-1/2" EMBED 	35	12.0"	12.0"	12.0"	9.1"	11.7"	12.0"	12.0"	8.5"	5.9"	7.7"	12.0"	12.0"	6.4"	4.3"	5.7"	12.0"	10.7"	5.8"	3.8"	5.1"
		40	12.0"	12.0"	11.0"	7.9"	10.2"	12.0"	12.0"	7.5"	5.1"	6.7"	12.0"	10.4"	5.7"	3.8"	5.0"	11.0"	8.7"	5.1"	3.3"	4.4"
		47	12.0"	12.0"	9.4"	6.6"	8.6"	12.0"	12.0"	6.4"	4.3"	5.7"	10.3"	8.2"	4.8"	3.2"	4.3"	8.7"	6.9"	4.3"	2.8"	3.8"
		60	12.0"	12.0"	7.5"	5.1"	6.7"	11.0"	8.7"	5.1"	3.3"	4.4"	7.3"	5.9"	3.8"	2.5"	3.3"	6.2"	5.0"	3.4"	2.2"	2.9"
		72	12.0"	12.0"	6.3"	4.2"	5.6"	8.4"	6.7"	4.2"	2.8"	3.7"	5.7"	4.6"	3.2"	2.0"	2.8"	5.3"	4.3"	3.0"		2.6"
		120	7.3"	5.9"	3.8"	2.5"	3.3"	5.3"	4.3"	3.0"		2.6"	5.3"	4.3"	3.0"		2.6"	5.3"	4.3"	3.0"		2.6"
		152	5.3"	4.3"	3.0"		2.6"	5.3"	4.3"	3.0"		2.6"	5.3"	4.3"	3.0"		2.6"	5.3"	4.3"	3.0"		2.6"
	1/4" DEWALT PANELMATE (FEMALE, MALE) W/ 1-7/8" MIN EMBED * 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.2"	12.0"	12.0"	12.0"	12.0"	12.0"	7.4"	11.0"	12.0"	12.0"	11.7"	6.6"	9.7"
		40	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	8.8"	12.0"	12.0"	12.0"	11.5"	6.5"	9.6"	12.0"	11.5"	10.3"	5.7"	8.5"
		47	12.0"	12.0"	12.0"	11.5"	12.0"	12.0"	12.0"	12.0"	7.4"	10.9"	12.0"	10.8"	9.9"	5.5"	8.1"	11.4"	9.1"	8.8"	4.8"	7.2"
		60	12.0"	12.0"	12.0"	8.8"	12.0"	12.0"	11.5"	10.3"	5.7"	8.5"	9.5"	7.7"	7.8"	4.2"	6.3"	8.2"	6.6"	7.0"	3.7"	5.6"
		72	12.0"	12.0"	12.0"	7.2"	10.7"	11.0"	8.9"	8.6"	4.7"	7.0"	7.5"	6.1"	6.5"	3.5"	5.3"	7.0"	5.7"	6.2"	3.3"	5.0"
		120	9.5"	7.7"	7.8"	4.2"	6.3"	7.0"	5.7"	6.2"	3.3"	5.0"	7.0"	5.7"	6.2"	3.3"	5.0"	7.0"	5.7"	6.2"	3.3"	5.0"
		152	7.0"	5.7"	6.2"	3.3"	5.0"	7.0"	5.7"	6.2"	3.3"	5.0"	7.0"	5.7"	6.2"	3.3"	5.0"	7.0"	5.7"	6.2"	3.3"	5.0"
	1/4" LAG SCREW WITH 1.5" MIN THREAD PENETR 	35	12.0"	12.0"	12.0"	9.6"	12.0"	12.0"	12.0"	8.7"	6.2"	8.0"	12.0"	12.0"	6.6"	4.6"	5.9"	12.0"	11.9"	5.9"	4.0"	5.3"
		40	12.0"	12.0"	11.3"	8.3"	10.6"	12.0"	12.0"	7.7"	5.4"	7.0"	12.0"	11.6"	5.8"	4.0"	5.2"	12.0"	9.7"	5.2"	3.5"	4.6"
		47	12.0"	12.0"	9.7"	7.0"	8.9"	12.0"	12.0"	6.6"	4.5"	5.9"	11.5"	9.1"	5.0"	3.4"	4.4"	9.6"	7.7"	4.4"	3.0"	3.9"
		60	12.0"	12.0"	7.7"	5.4"	7.0"	12.0"	9.7"	5.2"	3.5"	4.6"	8.1"	6.5"	3.9"	2.6"	3.4"	6.9"	5.6"	3.5"	2.3"	3.1"
		72	12.0"	12.0"	6.4"	4.4"	5.8"	9.4"	7.5"	4.3"	2.9"	3.8"	6.4"	5.2"	3.3"	2.2"	2.9"	5.9"	4.8"	3.1"	2.0"	2.7"
		120	8.1"	6.5"	3.9"	2.6"	3.4"	5.9"	4.8"	3.1"	2.0"	2.7"	5.9"	4.8"	3.1"	2.0"	2.7"	5.9"	4.8"	3.1"	2.0"	2.7"
		152	5.9"	4.8"	3.1"	2.0"	2.7"	5.9"	4.8"	3.1"	2.0"	2.7"	5.9"	4.8"	3.1"	2.0"	2.7"	5.9"	4.8"	3.1"	2.0"	2.7"

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

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MAY 14, 2024

MATERIAL	ANCHOR TYPE	CONN TYPE C6+	
		DESIGN PRESSURE	
0.072" ALUMINUM	#14 SMS	DP ≤ 100 PSF	6.5"
	1/4-20 BOLT	DP > 100 PSF	6.0"
0.125" ALUMINUM	#14 SMS	DP ≤ 100 PSF	7.5"
	1/4-20 BOLT	DP > 100 PSF	7.0"
0.25" ALUMINUM	#14 SMS	DP ≤ 100 PSF	12.0"
	1/4-20 BOLT	DP > 100 PSF	10.0"

#14 SMS:

1/4-20 BOLT:

CONNECTION TYPE C6 NOTES:
1. SHEET METAL SCREWS AND 1/4-20 BOLTS SHALL BE 410 SS.
2. FOR SMS, PROVIDE (5) PITCHES MINIMUM PAST THE THREAD PLANE.
3. ALL FASTENERS HEREIN SHALL UTILIZE 5/8"Ø MINIMUM WASHER AT HEAD OF ANCHOR.
4. 1/4-20 BOLTS SHALL UTILIZE SAE GRADE NUTS AND WASHERS.
5. ALUMINUM MEMBERS SHALL BE 6063-T6 MIN. ALLOY.
+ CONNECTION TYPE C6 IS VALID FOR ALL ALLOWABLE SPANS PER SPAN SCHEDULES.