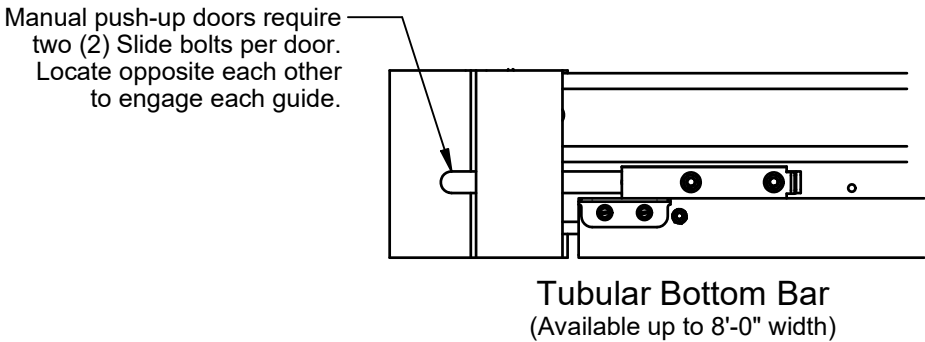
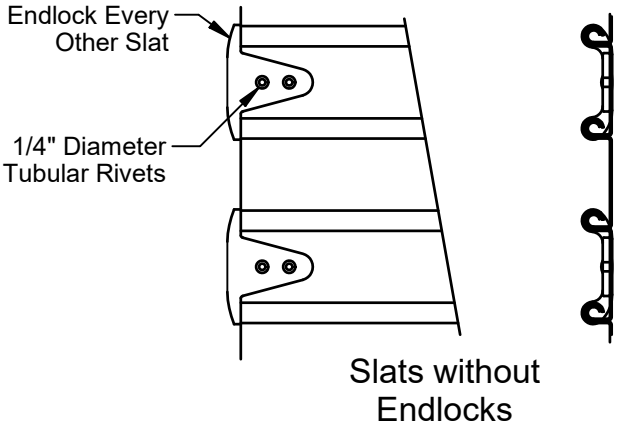
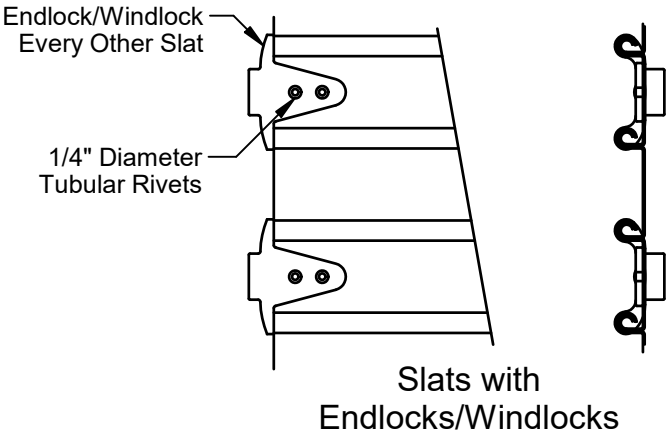
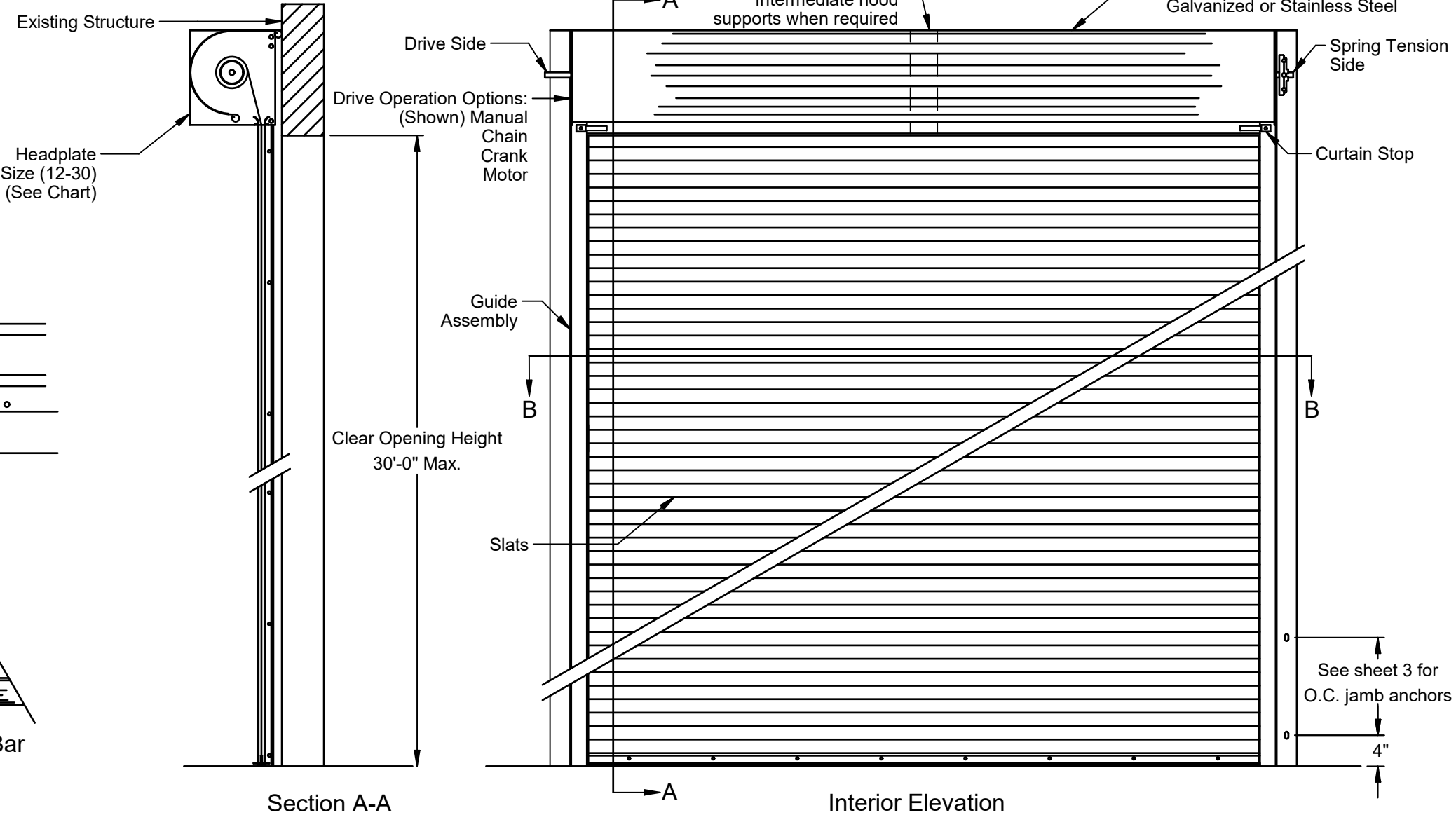
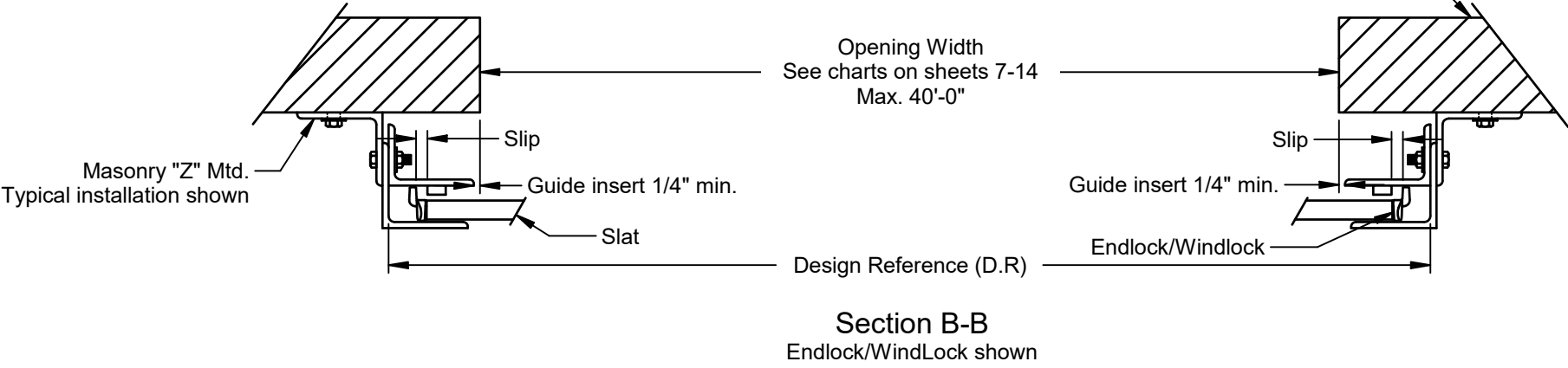


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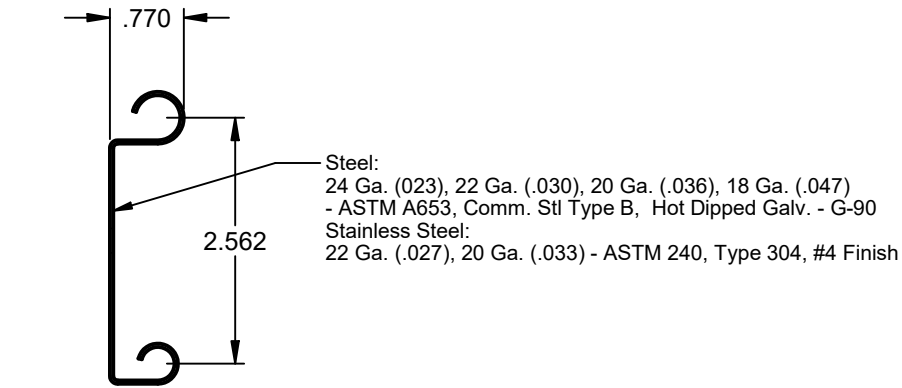
Digitally signed by Scott A Brown
Date: 2026.09.01 17:04:24-05'00'

Doors tested per
ANSI/DASMA 108 for static air pressure
ANSI/DASMA 115 large missile impact and cyclic wind pressure.
Complies with the IBC/IRC 2024 and current FBC.
Wind loaded rolling steel doors are designed, tested and sold by PSF.
The AHJ of a given jobsite is responsible for determining the appropriate PSF.



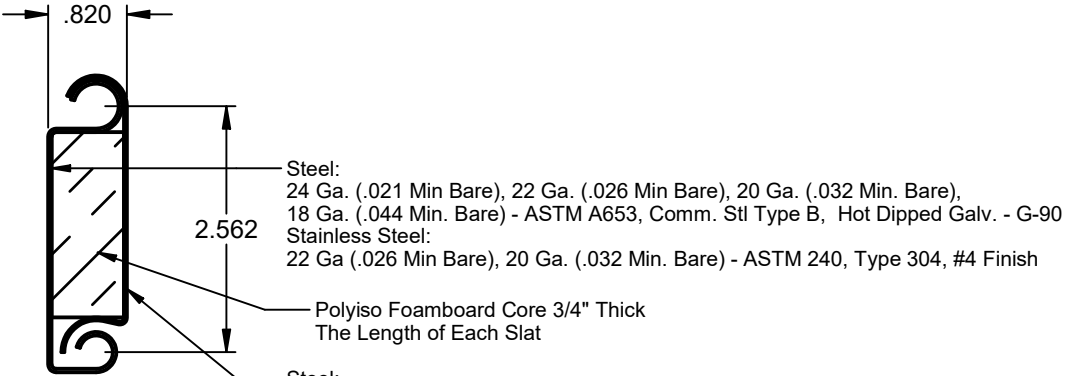
FL#15211

F	Updated title block and redrawn, added CMU as jambs. Added 4" jamb anchor note on sht 1. Added FBC section 1711 note on sheet 3.	9503.01	08/31/26	Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load Rolling Steel - FF, IF	
E	1) Anchor was KB3, embed was 3-1/4", added concrete thk & install edge. 2) Updated charts on shts 7-14 3) Was 0" min.	8613.01	08/03/22	Drawn by: M. Reutzel			
D	1) Max width on sht 1 was 31' for FF & 33' for IF. 2) Updated general specs on sht 2. 3) wall fasteners on sht 3 4) Removed G100 & added G98, G99, G101, & G103 5) Revised/Updated all charts on shts 7-14	8522.01	01/27/21	Checked by: J. Bonnell			
Rev.	Description	ECO	Date	Date: 06/05/2026 ECO: 6939.01		No. P-2184	Sheet 1 of 14



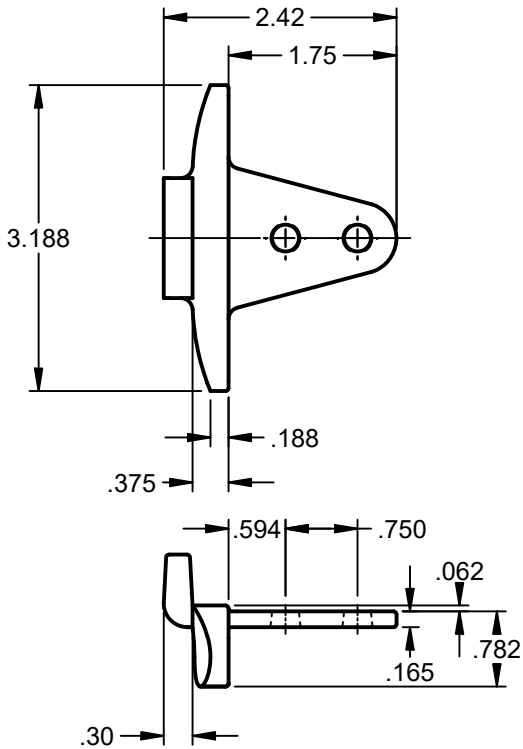
Flat Slat
" FF "/"UF"

("UF" Only available without windlocks)

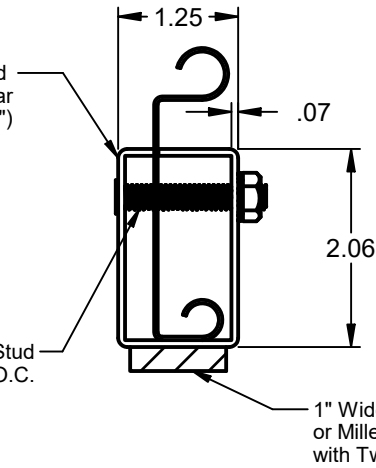
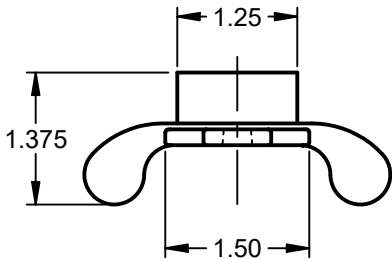
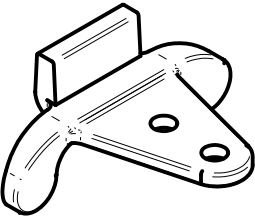


Insulated
Flat Slat
" IF "

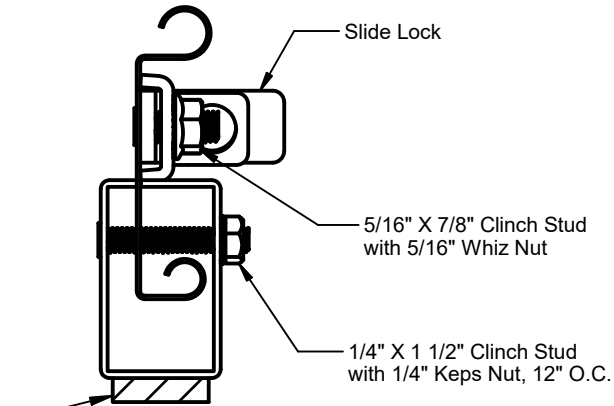
Flat Slat and Insulated Flat Slat Profiles



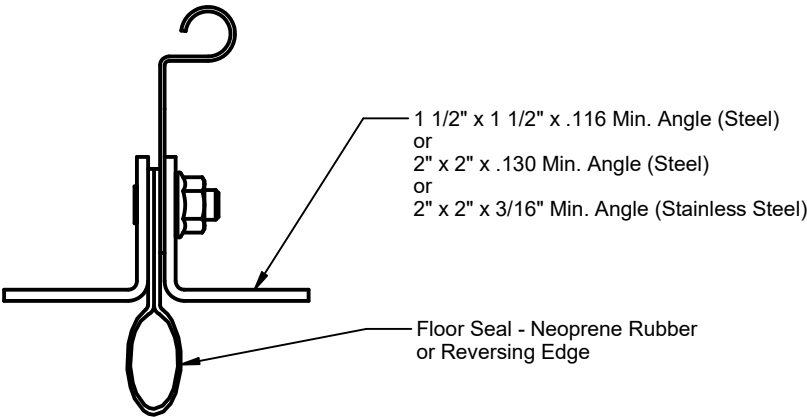
Malleable Cast Iron Endlock/Windlock



Tubular Bottom Bar Detail
(Available up to 8'-0" opening width)



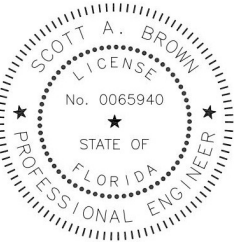
Tubular Bottom Bar Detail
w/Interior Slide Bolt
(Available up to 8'-0" opening width)



Bottom Bar Standard Assembly

General Specifications

- 1) DOORS shall be rolling steel DuraCoil (Standard Service Door) model "FF" or "IF", or FireCoil (Fire Door) model "UF" as manufactured by Raynor Garage Doors.
- 2) GUIDES - Structural steel angles min. 5/16" thick and rolled angles min. .180 thick. Top of guide angles flared and provided with 4 removable curtain stops.
- 3) BRACKETS - Steel plates min. 3/16" thick, bolted to guides for mounting curtain and barrel assembly. Drive side bracket shall be fitted with a sealed ball bearing for long life.
- 4) BARREL - Structural steel pipe, Minimum 4 1/2" O.D. x .120" wall thickness and designed to limit maximum deflection, under load, to .03" per foot of span.
- 5) GUIDE HARDWARE - All bolts and washers shall be galvanized steel or stainless steel with a minimum bolt tensile strength of 60 K.S.I.
- 6) ENDLOCK/WINDLOCKS and ENDLOCKS - Shall be cast malleable iron with electroplated clear chromate zinc coating.
- 7) CURTAIN FLAT SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel or stainless steel. Malleable endlock/windlocks fastened to alternate slats to eliminate lateral movement and prevent slats from wearing at surfaces coming in contact with guides.
- 8) CURTAIN INSULATED SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel or stainless steel. Each slat shall have a 3/4" thick polyiso foamboard core placed within the full length of the slat. Backing cover rollformed from 24 ga. commercial quality hot dipped galvanized (G-60) steel or stainless steel. Malleable endlock/windlocks fastened to alternate slats to eliminate lateral movement and prevent slats from wearing at surfaces coming in contact with guides.

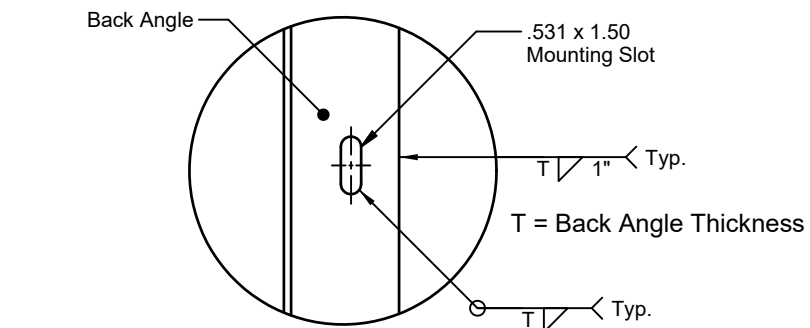
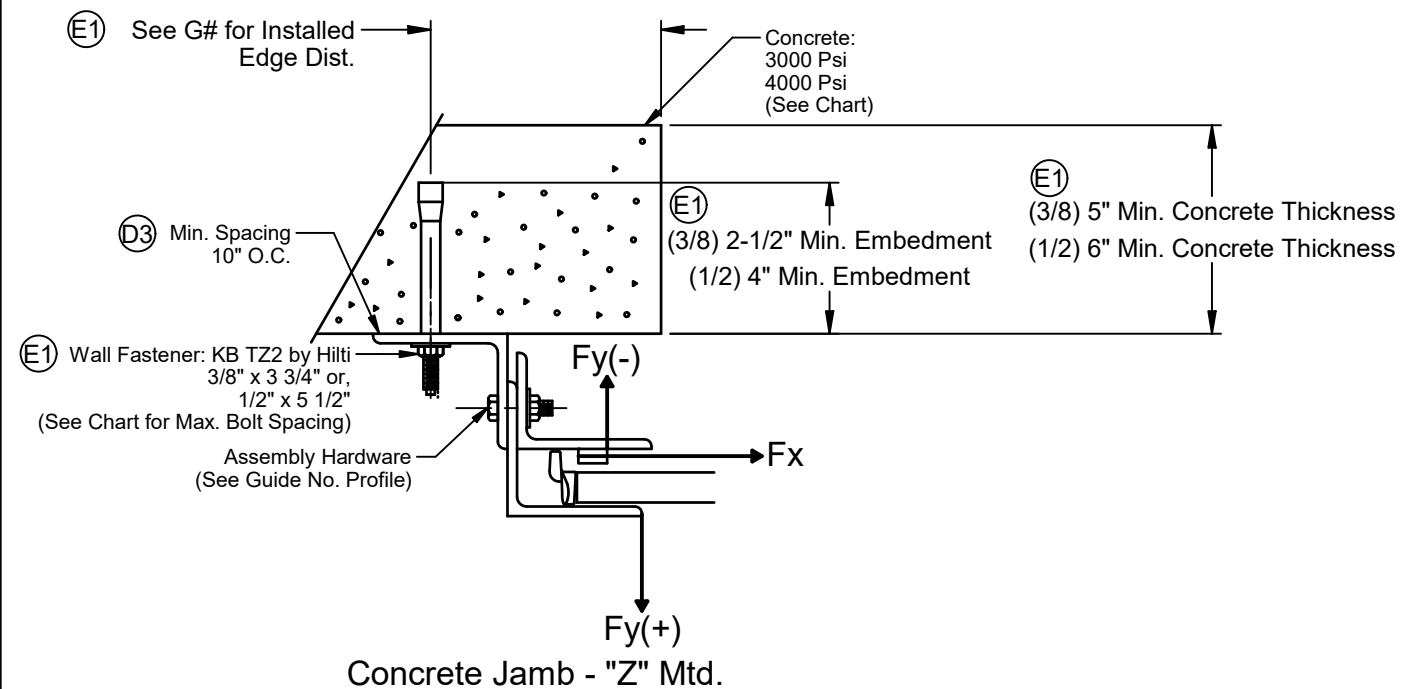


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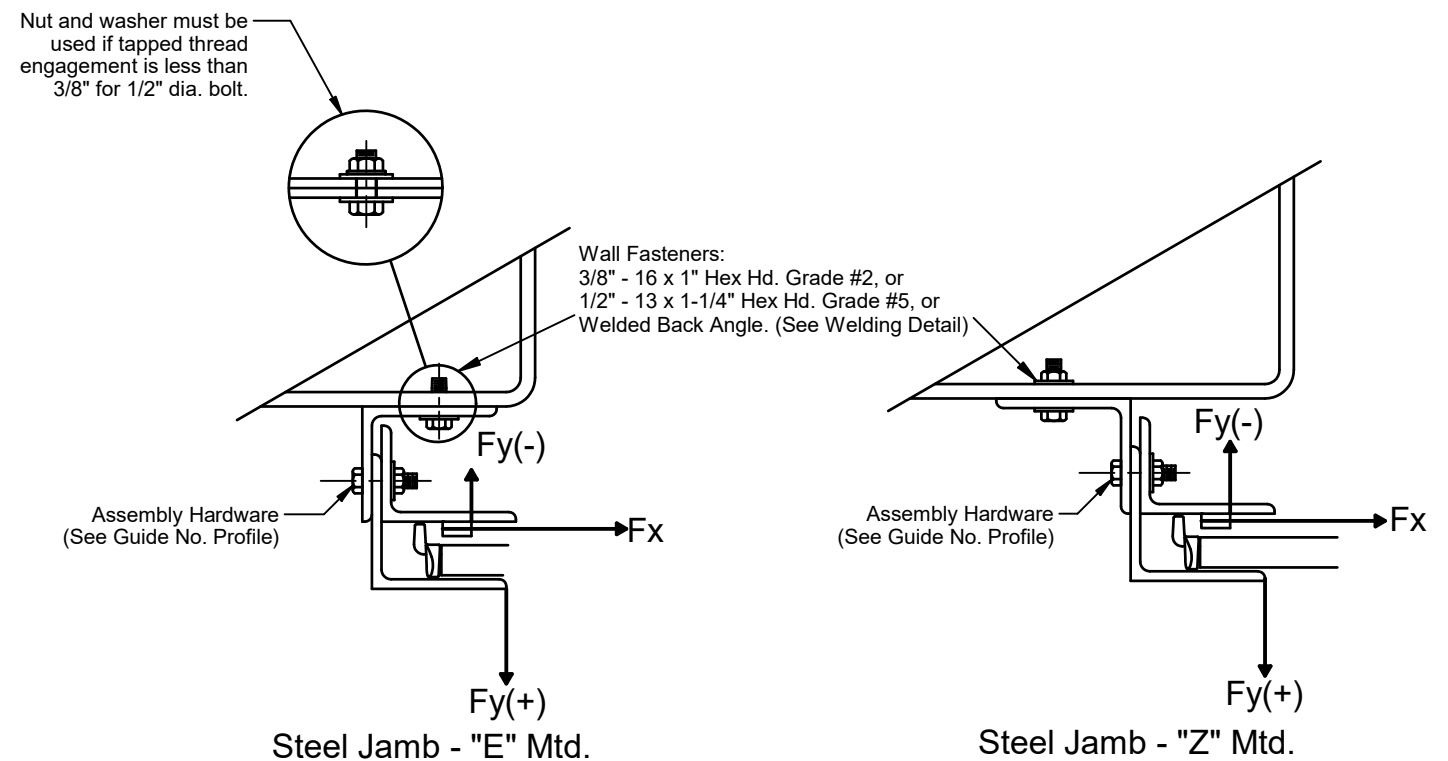
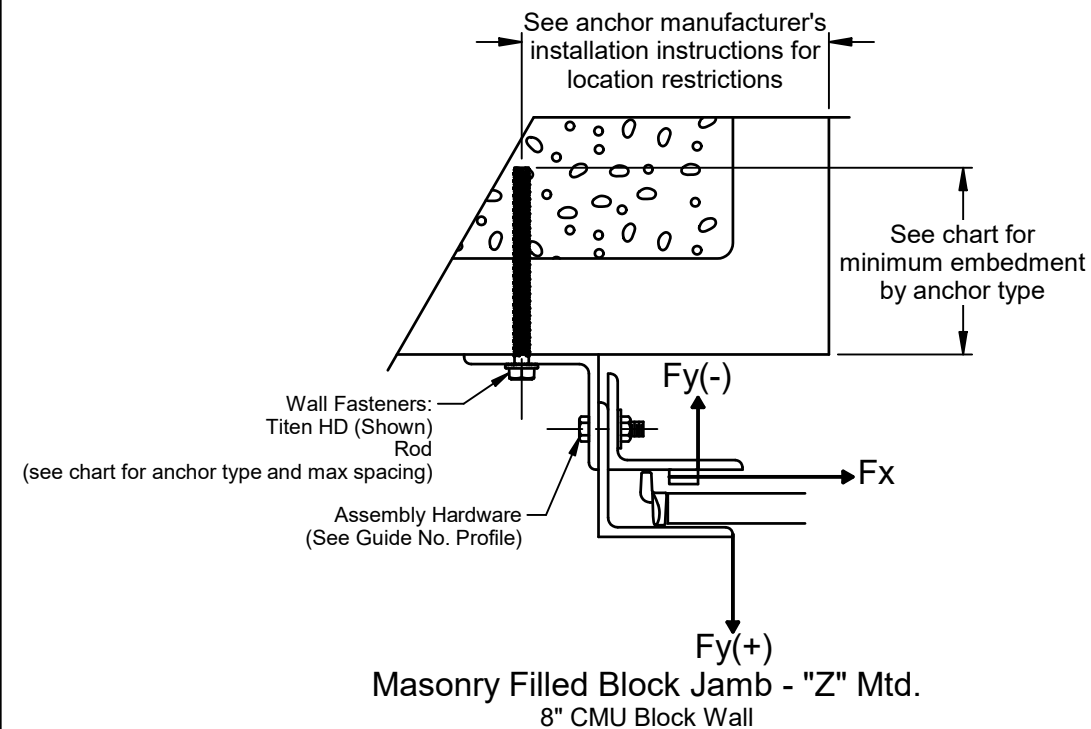
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Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load Rolling Steel - FF, IF		
Drawn by: M. Reutzel		No. P-2184		
Checked by: J. Bonnell				
Date: 06/05/2026				
ECO: 6939.01			Sheet 2	Rev F



Welding Detail

(Weld may be used in lieu of bolting at same bolt spacing)



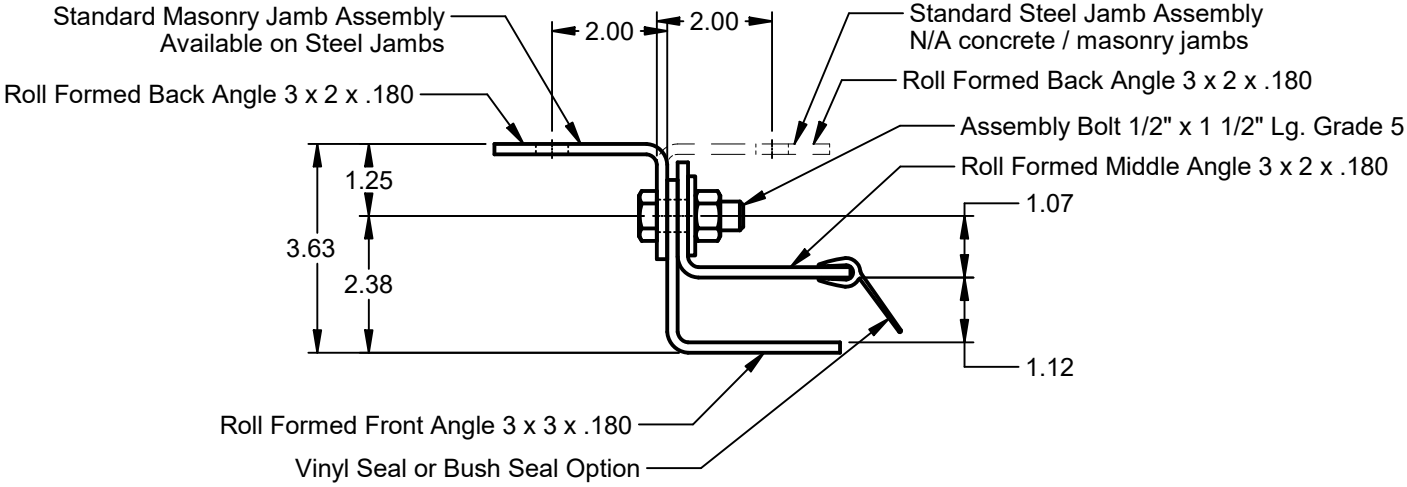
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Date: 2026.09.01 17:05:13-05'00

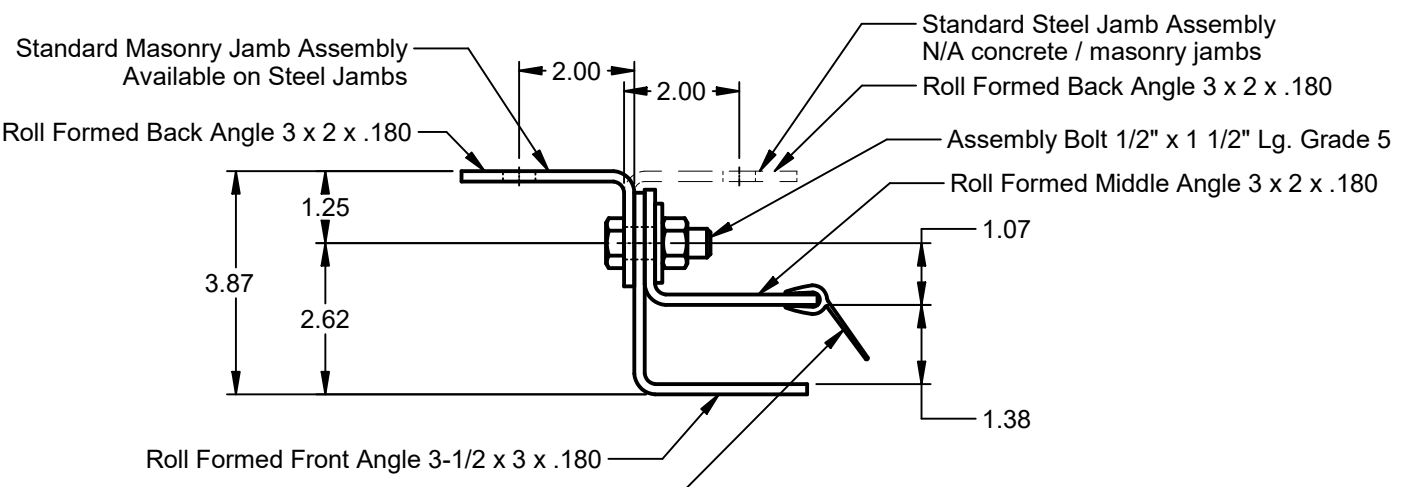
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Impacted Doors Per DASMA 115-05			
Slat Type	Slat Ga.	Max. Door Width	Max. Design Pressure
FF	22	16'	50 PSF
FF	20, 18	16'	60 PSF
IF	24, 22, 20, 18	16'	60 PSF
IF	24	20'	45 PSF
FF	22	20'	45 PSF
FF	20, 18	20'	55 PSF
IF	22, 20, 18	20'	55 PSF

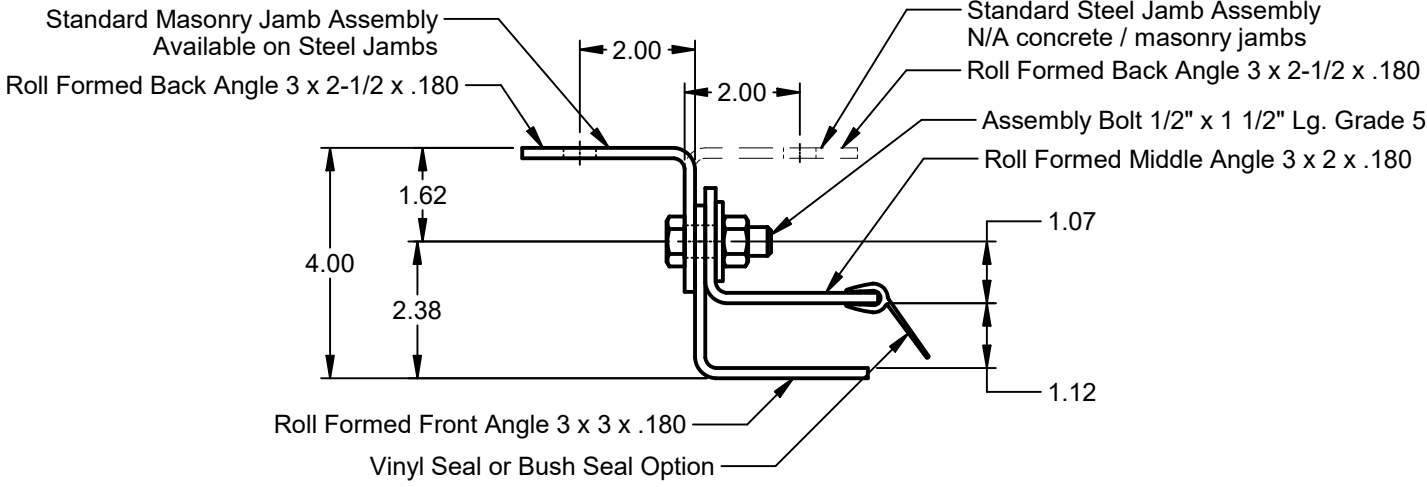
Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load Rolling Steel - FF, IF		
Drawn by: M. Reutzel		No. P-2184	Sheet 3	Rev F
Checked by: J. Bonnell				
Date: 06/05/2026				
ECO: 6939 01				



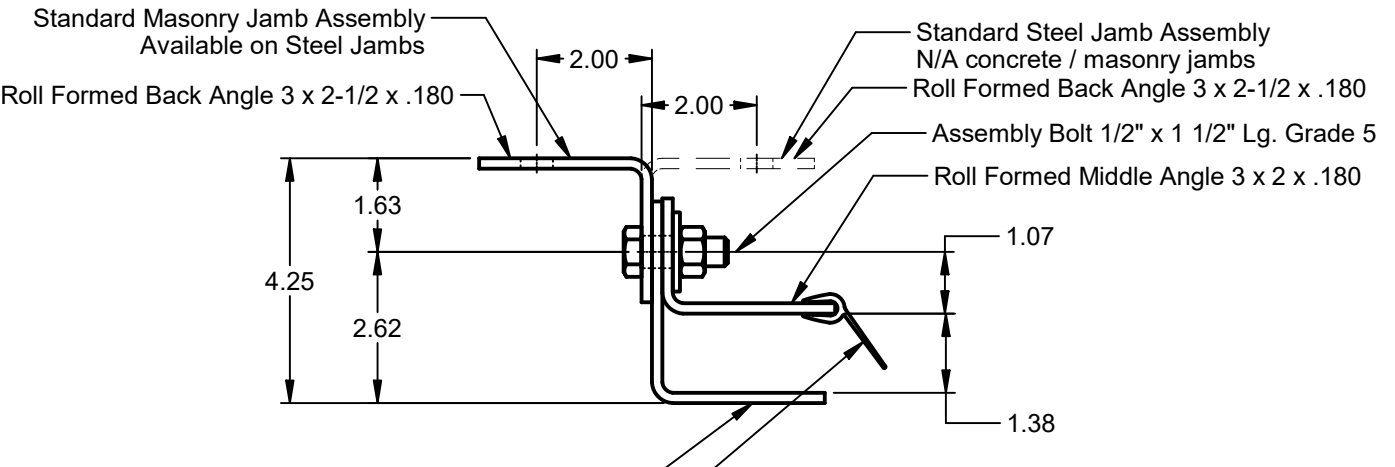
Guide Ass'y #89



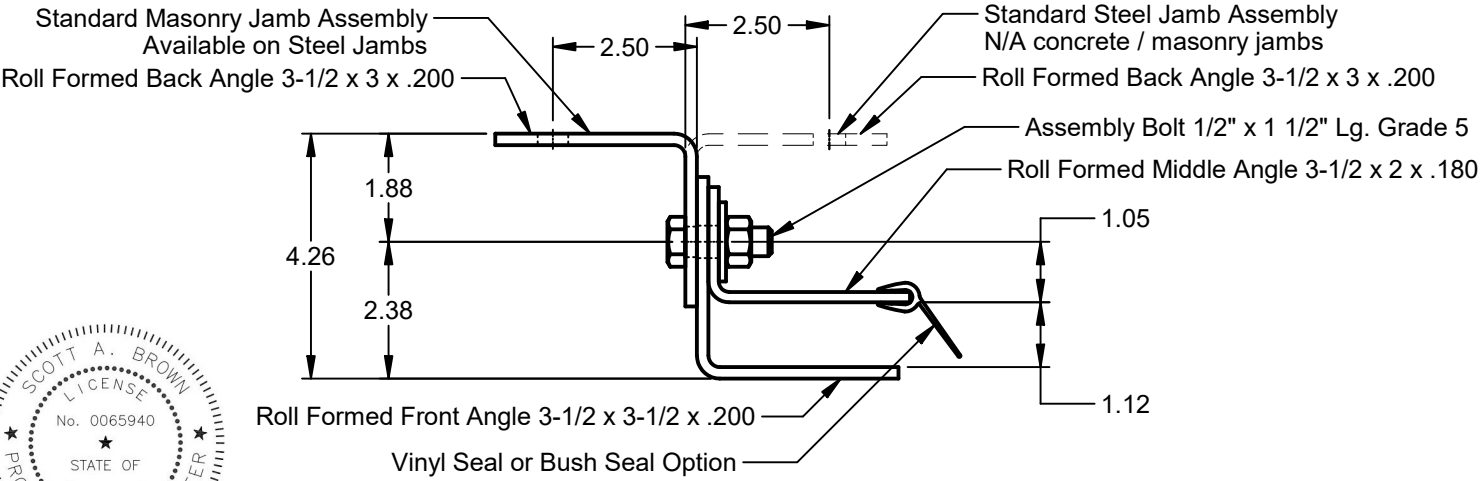
Guide Ass'y #92



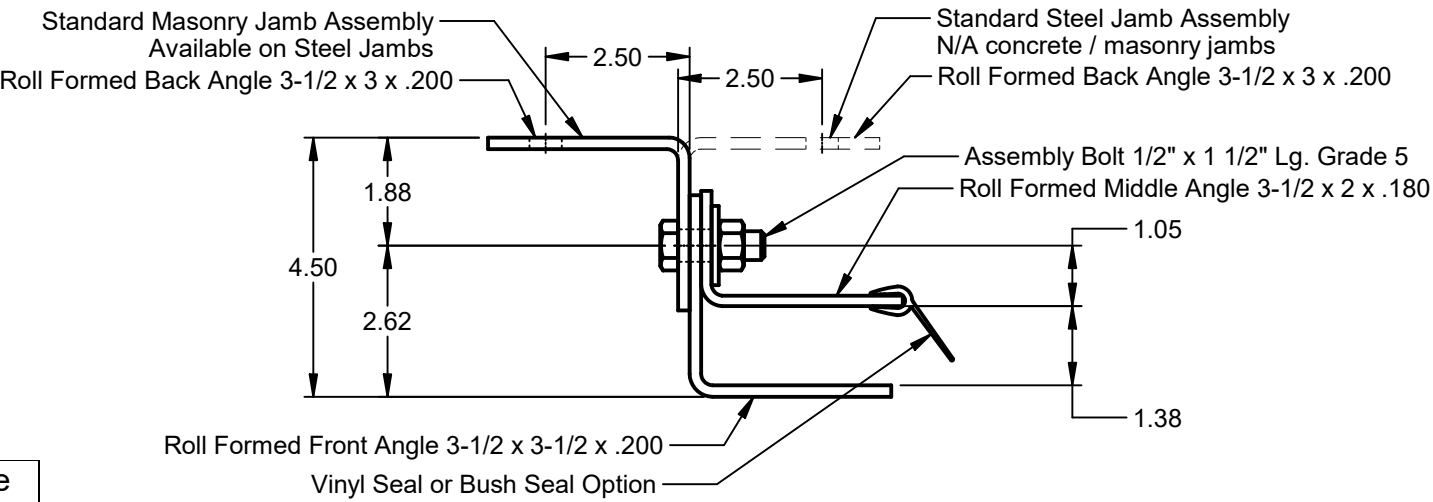
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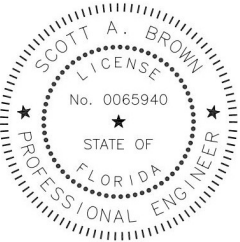
Guide Ass'y #93



Guide Ass'y #91



Guide Ass'y #94



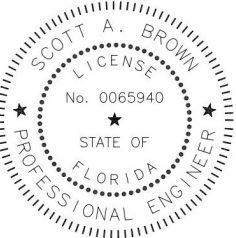
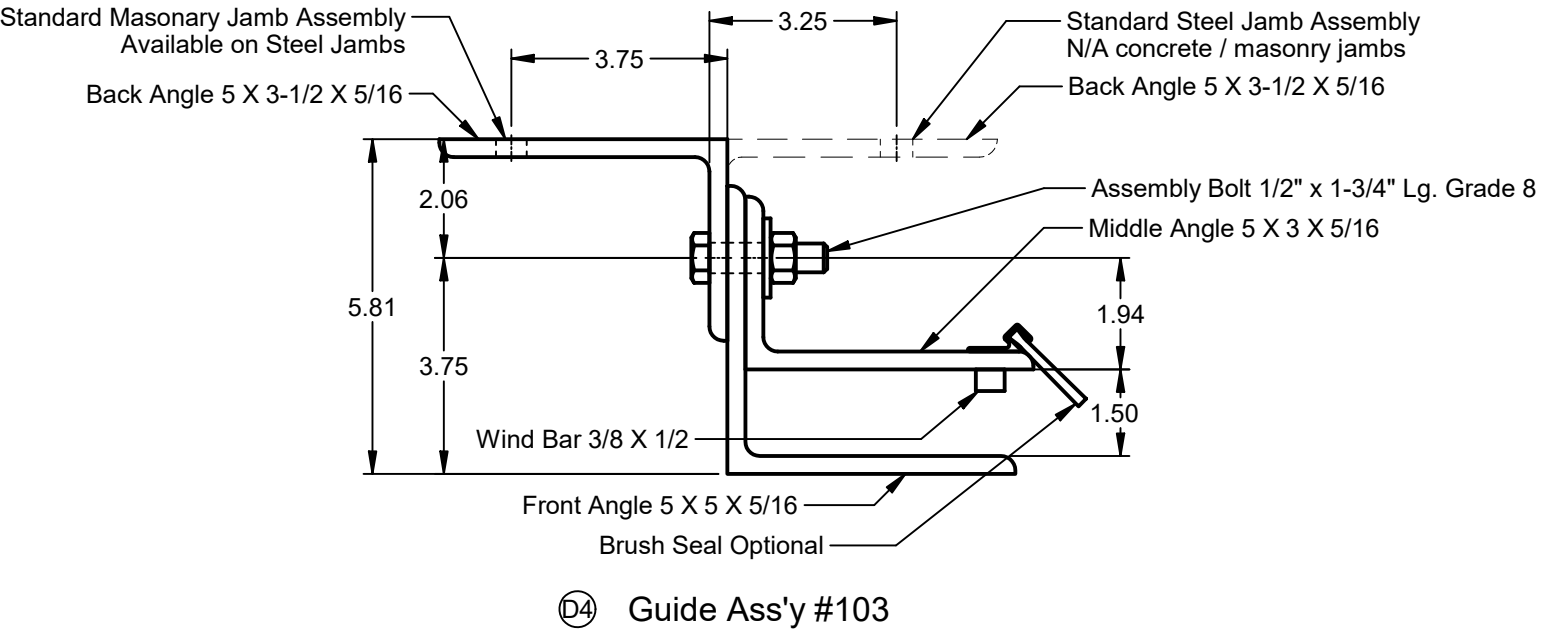
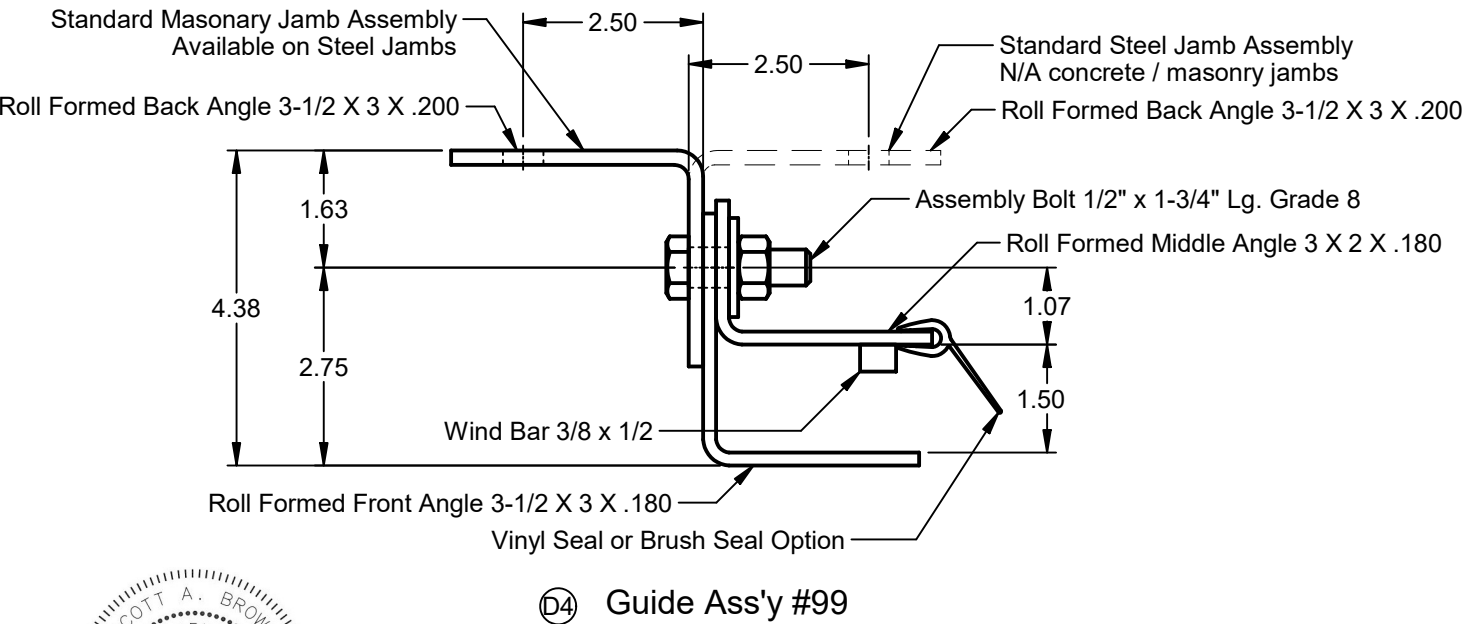
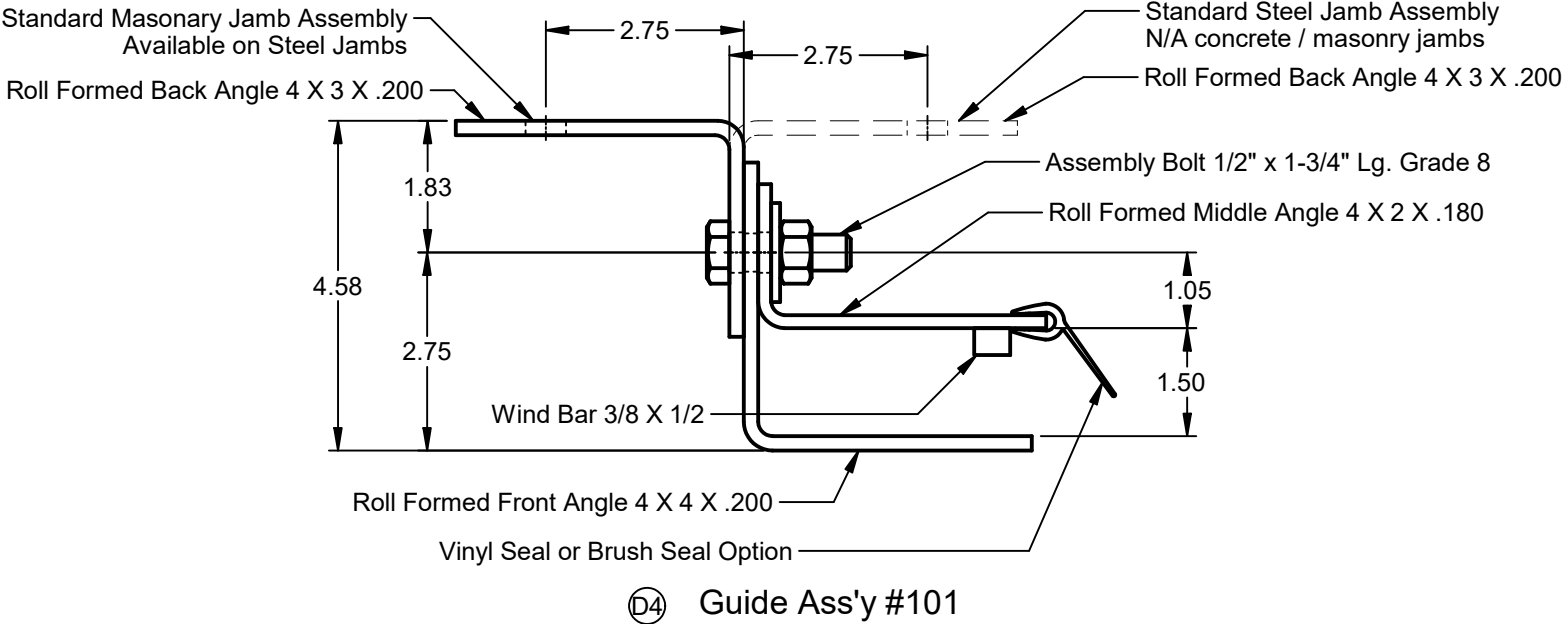
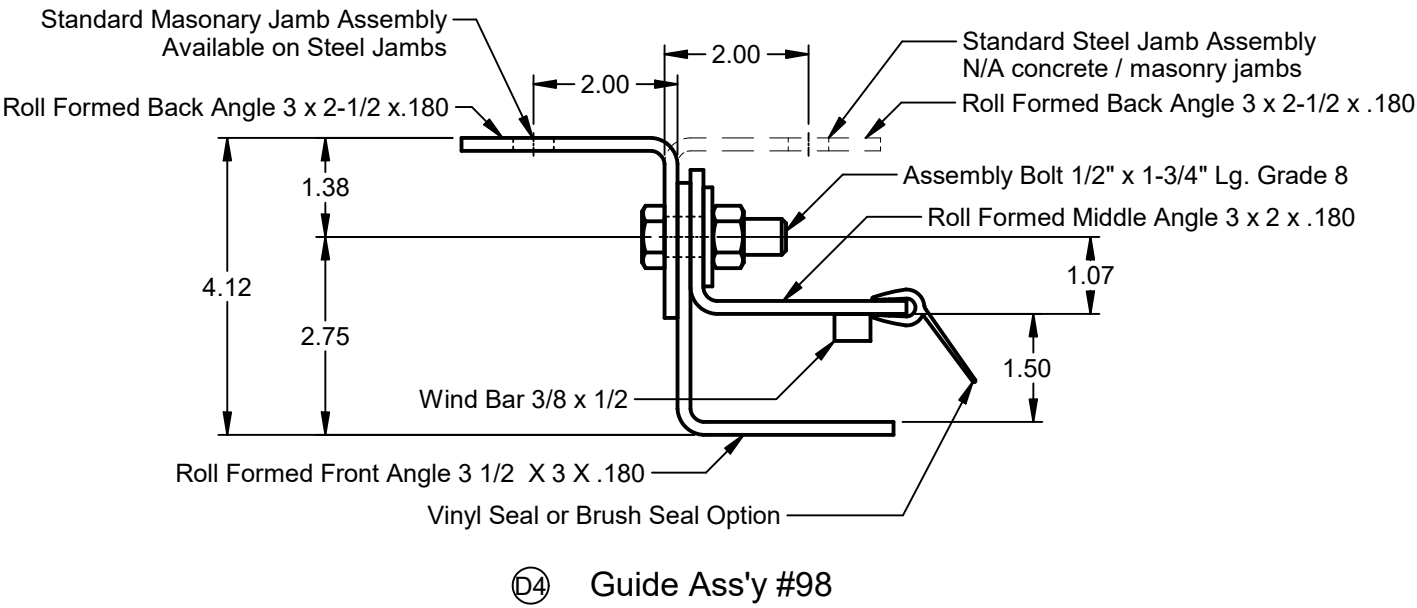
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G#	Installed Edge Dist.	Anchor Size	Concrete Embedment
89	5.437	3/8"	2.50"
90	5.437		
91	6.450		
92	5.437		
93	5.437		
94	6.450		

Inside angle configuration not permitted on masonry/concrete jambs

Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load Rolling Steel - FF, IF	
Drawn by: M. Reutzel		No. P-2184	Sheet 4
Checked by: J. Bonnell			
Date: 06/05/2026			
ECO: 6939.01			Rev F



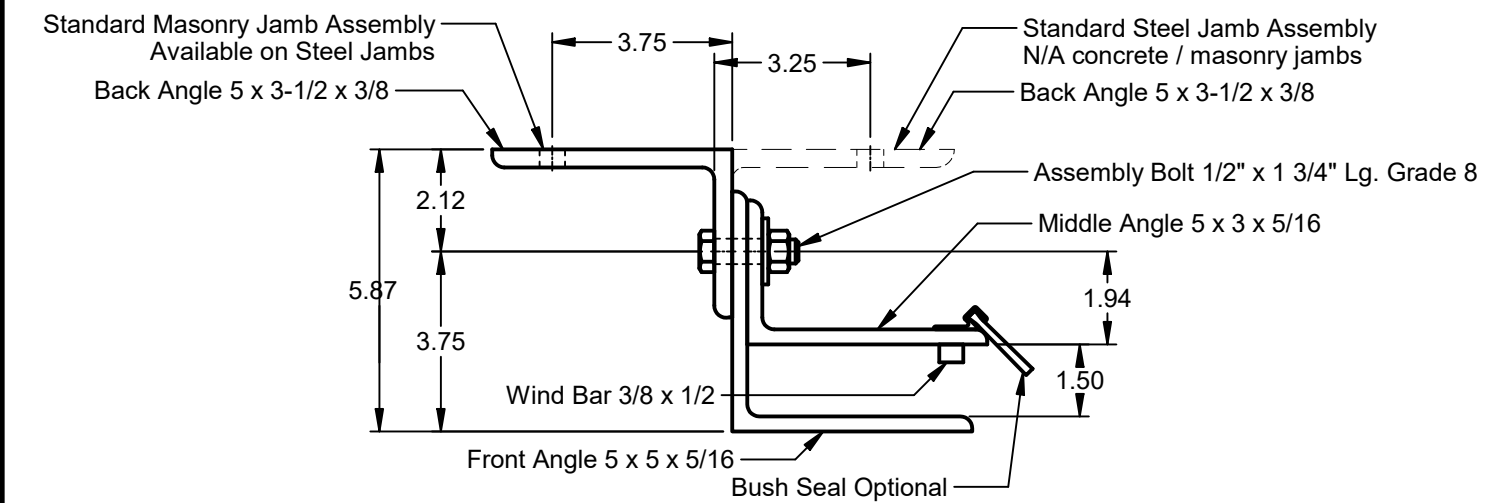
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FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

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Date: 2026.09.01 17:05:56-05'00'

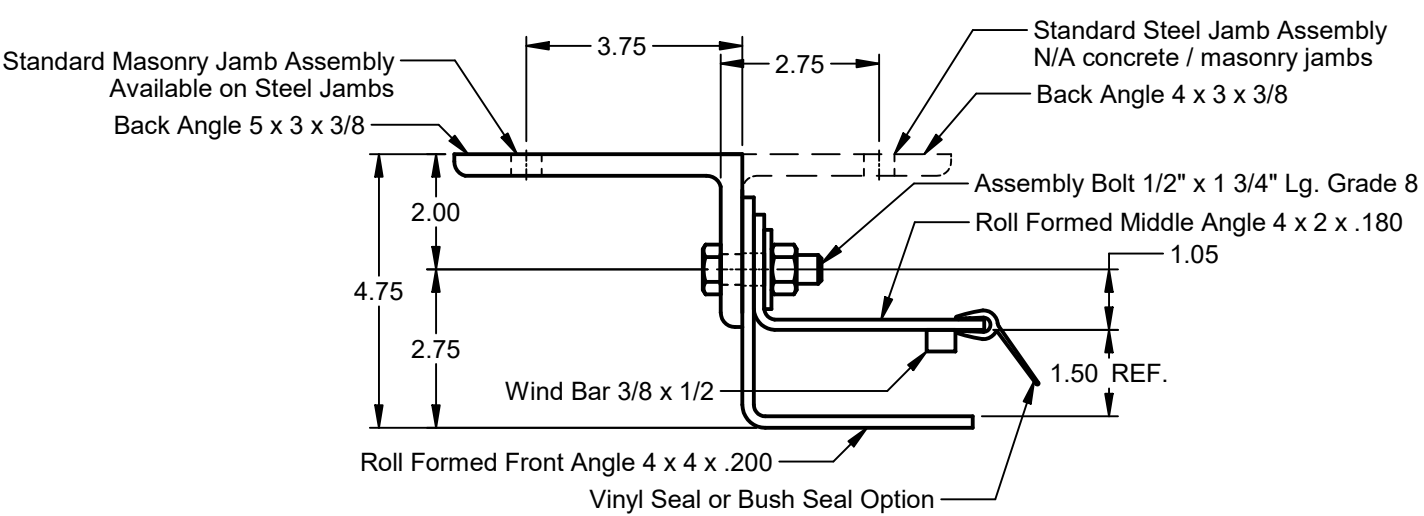
G#	Installed Edge Dist.	Anchor Size	Concrete Embedment
98	5.437	1/2"	4.00"
99	5.937		
101	7.200		
103	9.313		

Inside angle configuration not permitted on masonry/concrete jambs

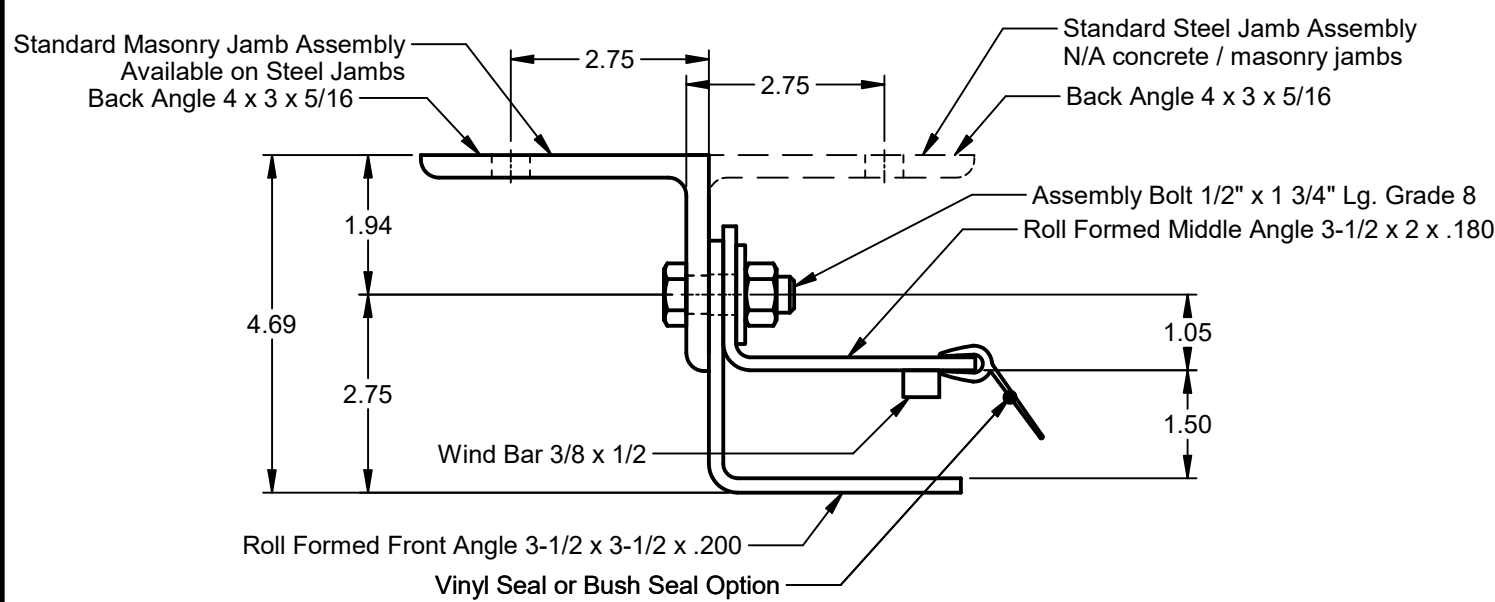
Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load Rolling Steel - FF, IF	
Drawn by: M. Reutzel		No. P-2184	Sheet 5
Checked by: J. Bonnell			
Date: 06/05/2026			
ECO: 6939.01			Rev F



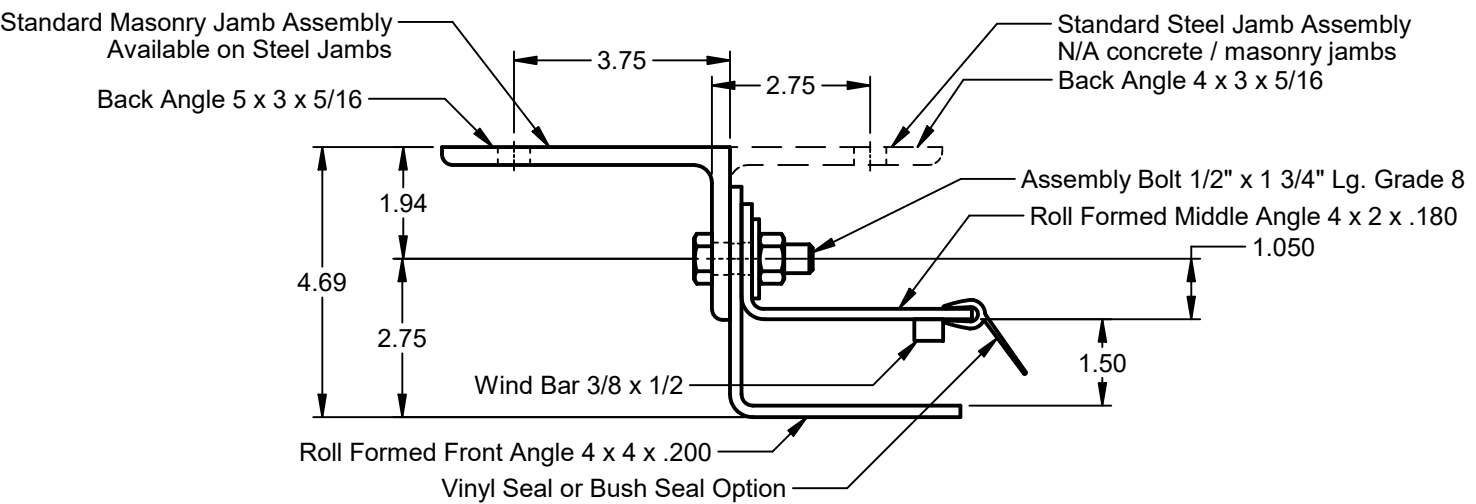
Guide Ass'y #104



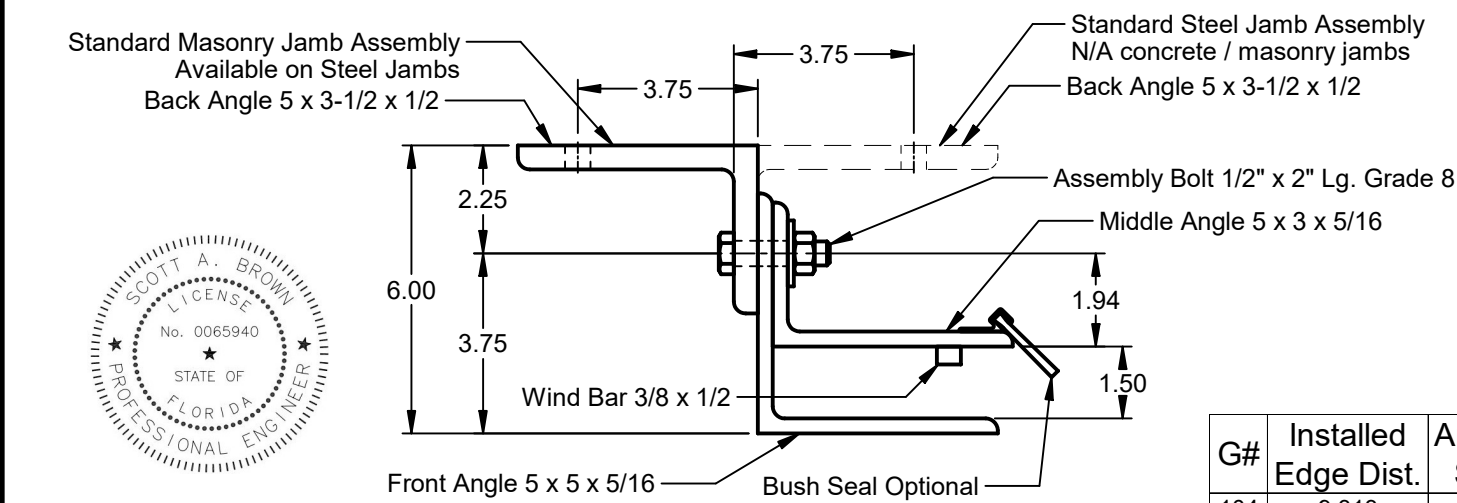
Guide Ass'y #107



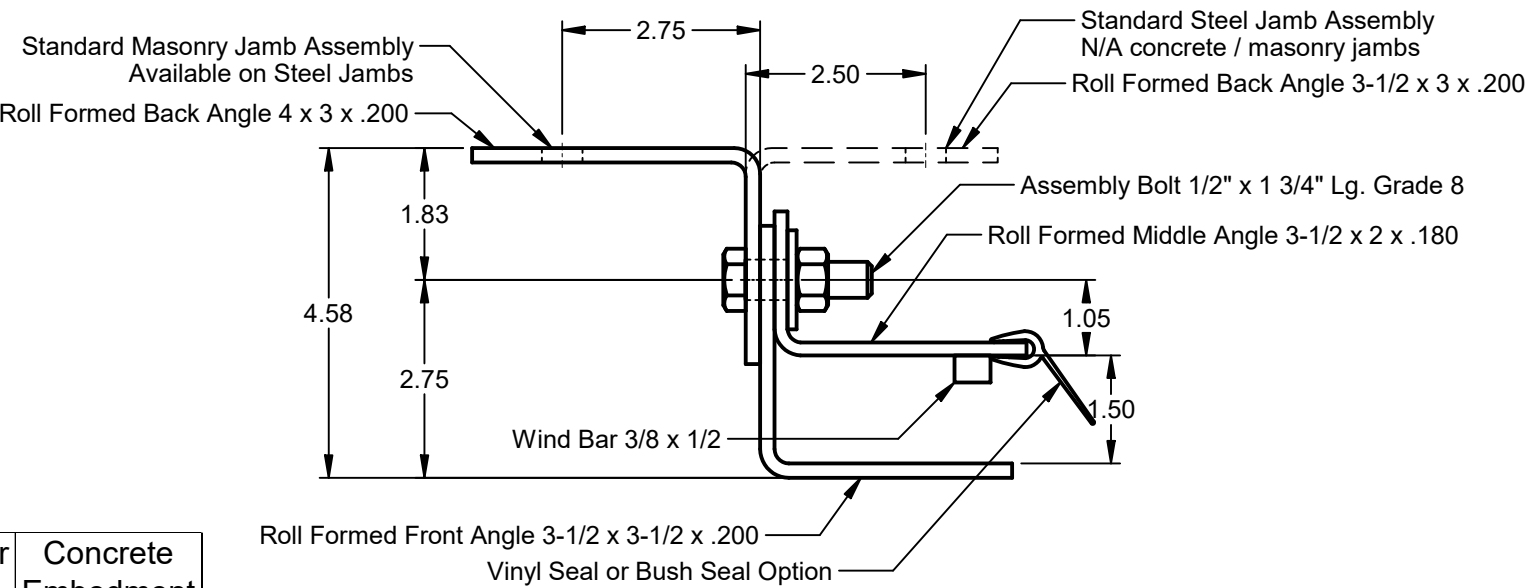
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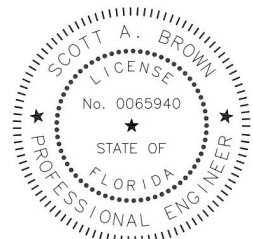
Guide Ass'y #110



Guide Ass'y #106



Guide Ass'y #111



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Inside angle configuration not permitted on masonry/concrete jambs

G#	Installed Edge Dist.	Anchor Size	Concrete Embedment
104	9.313	1/2"	4.00"
105	6.700		
106	9.313		
107	8.200		
110	8.200		
111	6.700		

Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load Rolling Steel - FF, IF	
Drawn by: M. Reutzel		No. P-2184	Sheet 6
Checked by: J. Bonnell			
Date: 06/05/2026			
ECO: 6939.01			Rev F

DuraCoil - Insulated Flat Slat 24 Ga.

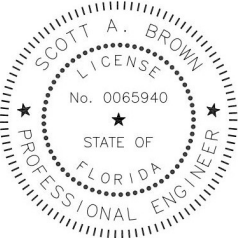
Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
20 PSF	12 - 16	16'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	22	24	1	8	N/A	165
	18 - 22		93	D.R. - 2.25	N/A	N/A				22	24	1	8	N/A	166
	24 - 30		94	D.R. - 2.75	N/A	N/A				19	22	2	16	N/A	167
	12 - 16	20'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24	24	1	8	622	200
	18 - 24		99		0.625	1.625				24	24	2	16	622	200
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	1	8	385	200
25 PSF	12 - 16	14'-9"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	20	23	1	8	N/A	184
	18 - 22		93	D.R. - 2.25	N/A	N/A				20	23	1	8	N/A	185
	24 - 30		94	D.R. - 2.75	N/A	N/A				17	19	2	16	N/A	186
	12 - 16	20'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20	22	1	8	905	250
	18 - 24		99		0.625	1.625				23	24	2	16	905	250
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	609	250
30 PSF	12 - 16	13'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	18	21	1	8	N/A	203
	18 - 22		93	D.R. - 2.25	N/A	N/A				18	21	1	8	N/A	204
	24 - 30		94	D.R. - 2.75	N/A	N/A				15	18	N/A	N/A	N/A	205
	12 - 16	19'-1"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	19	1	8	1022	286
	18 - 24		99		0.625	1.625				20	21	2	16	1022	286
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	691	286
	16 - 30	20'	111	D.R. - 3.00	1.000	2.125			24"	24	24	2	16	832	300
35 PSF	12 - 16	12'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	17	19	1	8	N/A	219
	18 - 22		93	D.R. - 2.25	N/A	N/A				17	19	1	8	N/A	220
	24 - 30		94	D.R. - 2.75	N/A	N/A				14	16	N/A	N/A	N/A	221
	12 - 16	17'-8"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	991	309
	18 - 24		99		0.625	1.625				20	22	2	16	991	309
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	647	309
	18 - 30	20'	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	24"	19	20	2	16	1056	350
40 PSF	12 - 16	11'-8"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	15	18	1	8	N/A	233
	18 - 22		93	D.R. - 2.25	N/A	N/A				15	18	1	8	N/A	234
	24 - 30		94	D.R. - 2.75	N/A	N/A				13	15	N/A	N/A	N/A	235
	12 - 16	16'-7"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	968	332
	18 - 24		99		0.625	1.625				21	22	2	16	968	332
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	610	332
	18 - 30	20'	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	24"	15	17	N/A	N/A	1279	400
45 PSF	12 - 16	11'	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	15	17	1	8	N/A	248
	18 - 22		93	D.R. - 2.25	N/A	N/A				15	17	1	8	N/A	249
	24 - 30		94	D.R. - 2.75	N/A	N/A				12	14	N/A	N/A	N/A	250
	12 - 16	15'-9"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	958	354
	18 - 24		99		0.625	1.625				21	22	2	16	958	354
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	585	354
	18 - 30	20'	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	21"	12	14	N/A	N/A	1503	450
50 PSF	12 - 16	10'-5"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	14	16	1	8	N/A	260
	18 - 22		93	D.R. - 2.25	N/A	N/A				14	16	1	8	N/A	261
	24 - 30		94	D.R. - 2.75	N/A	N/A				12	14	N/A	N/A	N/A	262
	12 - 16	15'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	20	1	8	932	375
	18 - 24		99		0.625	1.625				21	23	2	16	932	375
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	547	375
	18 - 30	20'	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	19"	N/A	12	N/A	N/A	1727	500
55 PSF	12 - 16	9'-11"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13	15	1	8	N/A	273
	18 - 22		93	D.R. - 2.25	N/A	N/A				13	15	1	8	N/A	274
	24 - 30		94	D.R. - 2.75	N/A	N/A				11	13	N/A	N/A	N/A	275
	12 - 16	14'-4"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	21	1	8	896	394
	18 - 24		99		0.625	1.625				22	23	2	16	896	394
	26 - 30		111	D.R. - 3.00	0.875	2.000				24	24	2	16	604	394
	18 - 30	18'-8"	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	18"	N/A	12	N/A	N/A	1633	513
	18 - 30		107	D.R. - 3.75	1.125	2.625				N/A	12	N/A	N/A	1810	550
60 PSF	12 - 16	9'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13	15	1	8	N/A	285
	18 - 22		93	D.R. - 2.25	N/A	N/A				13	15	1	8	N/A	286
	24 - 30		94	D.R. - 2.75	N/A	N/A				11	12	N/A	N/A	N/A	287
	12 - 16	13'-10"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	21	1	8	888	415
	18 - 24		99		0.625	1.625				22	23	2	16	888	415
	26 - 30		111	D.R. - 3.00	0.750	1.875				24	24	2	16	718	415
	18 - 30	17'-11"	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	18"	N/A	12	N/A	N/A	1640	538
	18 - 30		104	D.R. - 4.25	1.875	3.625				12	14	N/A	N/A	1450	600
65 PSF	12 - 16	9'-2"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12	14	1	8	N/A	298
	18 - 22		93	D.R. - 2.25	N/A	N/A				12	14	1	8	N/A	299
	24 - 30		94	D.R. - 2.75	N/A	N/A				10	12	N/A	N/A	N/A	300
	12 - 16	13'-4"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	21	1	8	855	433
	18 - 24		99		0.625	1.625				22	24	2	16	855	433
	26 - 30		111	D.R. - 3.00	0.625	1.750				23	24	2	16	855	433
	18 - 30	16'-4"	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	18"	12	15	N/A	N/A	1382	531
	18 - 30		104	D.R. - 4.25	1.938	3.688				N/A	12	N/A	N/A	1579	650

Notes:
D.R. = Design Reference
N/A = Not Applicable

CMU Anchor Types:
Type 1: 1/2" Dia. Titen HD, 2-3/4" min. embedment
Type 2: 1/2" Dia. Rod w/HIT-HY200, 6-3/4" min. embedment

See anchor manufacturer's installation guides for spacing restrictions for CMU block.

Alternate design may be approved by a licensed professional engineer.



Scott A. Brown, P.E. Lic. No. 65940
Willett Hofmann & Associates, Inc.
809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Scott A. Brown
Digitally signed by Scott A Brown
Date: 2026.09.01 17:06:42-05'00'

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Scale: None	 1101 East River Road Dixon, IL 61021	Title: Spec, Wind Load Rolling Steel - FF, IF		
Drawn by: M. Reutzel				
Checked by: J. Bonnell				
Date: 06/05/2026				
ECO: 6939.01	No. P-2184		Sheet 7	Rev F

DuraCoil - Insulated Flat Slat 22 Ga.

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
20 PSF	12 - 16	17'-3"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	21	24	1	8	N/A	173
	18 - 22		93	D.R. - 2.25	N/A	N/A				21	24	1	8	N/A	174
	24 - 30		94	D.R. - 2.75	N/A	N/A				18	21	2	16	N/A	175
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	22	24	1	8	820	220
	18 - 24		99	D.R. - 2.75	0.625	1.625				24	24	2	16	820	220
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	547	220
	16 - 24	24'	101	D.R. - 3.75	1.125	2.625			24"	24	24	2	16	701	240
	26 - 30		110		1.125	2.625				24	24	2	16	701	240
	26 - 30		110		1.125	2.625				24	24	2	16	701	240
25 PSF	12 - 16	15'-5"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	19	22	1	8	N/A	193
	18 - 22		93	D.R. - 2.25	N/A	N/A				19	22	1	8	N/A	194
	24 - 30		94	D.R. - 2.75	N/A	N/A				16	19	2	16	N/A	195
	12 - 16	21'-4"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	17	19	1	8	1042	267
	18 - 24		99	D.R. - 2.75	0.625	1.625				20	21	2	16	1042	267
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	715	267
	16 - 24	24'	101	D.R. - 3.75	1.125	2.625			24"	21	22	2	16	978	300
	26 - 30		110		1.125	2.625				23	24	2	16	978	300
	26 - 30		110		1.125	2.625				23	24	2	16	978	300
30 PSF	12 - 16	14'-1"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	17	20	1	8	N/A	211
	18 - 22		93	D.R. - 2.25	N/A	N/A				17	20	1	8	N/A	212
	24 - 30		94	D.R. - 2.75	N/A	N/A				15	17	N/A	N/A	N/A	213
	12 - 16	19'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	19	1	8	1016	293
	18 - 24		99	D.R. - 2.75	0.625	1.625				20	21	2	16	1016	293
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	674	293
	16 - 24	22'-3"	101	D.R. - 3.75	1.125	2.625			24"	20	21	2	16	1010	334
	26 - 30		110		1.125	2.625				22	24	2	16	1010	334
	18 - 30		110		1.125	2.625				18	19	2	16	1255	360
35 PSF	12 - 16	13'	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	16	18	1	8	N/A	228
	18 - 22		93	D.R. - 2.25	N/A	N/A				16	18	1	8	N/A	229
	24 - 30		94	D.R. - 2.75	N/A	N/A				14	16	N/A	N/A	N/A	230
	12 - 16	18'-1"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	984	316
	18 - 24		99	D.R. - 2.75	0.625	1.625				20	22	2	16	984	316
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	627	316
	16 - 24	20'-6"	101	D.R. - 3.75	1.125	2.625			24"	20	22	2	16	972	359
	26 - 30		110		1.125	2.625				23	24	2	16	972	359
	18 - 30		110		1.125	2.625				13	16	N/A	N/A	1532	420
40 PSF	12 - 16	12'-2"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	15	17	1	8	N/A	243
	18 - 22		93	D.R. - 2.25	N/A	N/A				15	17	1	8	N/A	244
	24 - 30		94	D.R. - 2.75	N/A	N/A				13	15	N/A	N/A	N/A	245
	12 - 16	17"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	960	340
	18 - 24		99	D.R. - 2.75	0.625	1.625				21	22	2	16	960	340
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	589	340
	16 - 24	19'-2"	101	D.R. - 3.75	1.125	2.625			24"	21	22	2	16	943	383
	26 - 30		110		1.125	2.625				23	24	2	16	943	383
	18 - 30		110		1.125	2.625				N/A	12	N/A	N/A	1809	480
45 PSF	12 - 16	11'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	14	16	1	8	N/A	259
	18 - 22		93	D.R. - 2.25	N/A	N/A				14	16	1	8	N/A	260
	24 - 30		94	D.R. - 2.75	N/A	N/A				12	14	N/A	N/A	N/A	261
	12 - 16	16'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	951	364
	18 - 24		99	D.R. - 2.75	0.625	1.625				21	22	2	16	951	364
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	564	364
	16 - 24	18'-1"	101	D.R. - 3.75	1.125	2.625			24"	21	23	2	16	913	407
	26 - 30		110		1.125	2.625				24	24	2	16	913	407
	18 - 30		110		1.125	2.625				18"	N/A	12	N/A	1800	506
	18 - 30	22'-6"	110	D.R. - 3.75	1.125	2.625	1/2" Gr 5	1/2"	18"	N/A	12	N/A	N/A	1800	506
	18 - 30	24'	104	D.R. - 4.25	1.875	3.625			18"	N/A	13	N/A	N/A	1524	540

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	CMU Anchor Type*	CMU Anchoring Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
45 PSF	12 - 16	11'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	14	16	1	8	N/A	259	
	18 - 22		93	D.R. - 2.25	N/A	N/A				14	16	1	8	N/A	260	
	24 - 30		94	D.R. - 2.75	N/A	N/A				12	14	N/A	N/A	N/A	261	
	12 - 16	16'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	951	364	
	18 - 24		99	0.625	1.625	21				22	2	16	951	364		
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	564	364	
	16 - 24	18'-1"	101	D.R. - 3.75	1.125	2.625			24"	21	23	2	16	913	407	
	26 - 30		110	1.125	2.625	24				24	2	16	913	407		
	18 - 30	22'-6"	110	D.R. - 3.75	1.125	2.625				18"	N/A	12	N/A	N/A	1800	506
	18 - 30	24'	104	D.R. - 4.25	1.875	3.625				18"	N/A	13	N/A	N/A	1524	540
50 PSF	12 - 16	10'-11"	92	D.R. - 2.00	N/A	N/A				3/8" Gr 2	3/8"	24"	13	15	1	8
	18 - 22		93	D.R. - 2.25	N/A	N/A	13	15	1				8	N/A	274	
	24 - 30		94	D.R. - 2.75	N/A	N/A	11	13	N/A				N/A	N/A	275	
	12 - 16	15'-5"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	20	1	8	926	385	
	18 - 24		99	0.625	1.625	21				23	2	16	926	385		
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	525	385	
	16 - 24	17'-2"	101	D.R. - 3.75	1.125	2.625			24"	21	23	2	16	879	429	
	26 - 30		110	1.125	2.625	24				24	2	16	879	429		
	18 - 30	21'-2"	110	D.R. - 3.75	1.125	2.625				18"	N/A	13	N/A	N/A	1771	529
	18 - 30	24'	104	D.R. - 4.25	2.063	3.813				17"	N/A	12	N/A	N/A	1639	600
55 PSF	12 - 16	10'-4"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13	15	1	8	N/A	284	
	18 - 22		93	D.R. - 2.25	N/A	N/A				13	15	1	8	N/A	285	
	24 - 30		94	D.R. - 2.75	N/A	N/A				11	12	N/A	N/A	N/A	286	
	12 - 16	14'-9"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	21	1	8	891	406	
	18 - 24		99	0.625	1.625	22				23	2	16	891	406		
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	478	406	
	16 - 24	16'-5"	101	D.R. - 3.75	1.125	2.625			24"	22	23	2	16	853	451	
	26 - 30		110	1.125	2.625	24				24	2	16	853	451		
	18 - 30		20'	110	D.R. - 3.75	1.125				2.625	19"	N/A	13	N/A	N/A	1732
	18 - 30	22'-6"	104	D.R. - 4.25	2.063	3.813				16"	N/A	12	N/A	N/A	1580	619
18 - 30	24'	106	D.R. - 4.25	1.875	3.625	15"	N/A	N/A	N/A	N/A	1953	660				
60 PSF	12 - 16	9'-11"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12	14	1	8	N/A	297	
	18 - 22		93	D.R. - 2.25	N/A	N/A				12	14	1	8	N/A	298	
	24 - 30		94	D.R. - 2.75	N/A	N/A				10	12	N/A	N/A	N/A	299	
	12 - 16	14'-3"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	21	1	8	884	428	
	18 - 24		99	0.625	1.625	22				23	2	16	884	428		
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	457	428	
	16 - 24	15'-9"	101	D.R. - 3.75	1.125	2.625			24"	22	24	2	16	821	473	
	26 - 30		110	1.125	2.625	24				24	2	16	821	473		
	18 - 30	19'-1"	110	D.R. - 3.75	1.125	2.625				19"	N/A	14	N/A	N/A	1713	573
	18 - 30	22'	104	D.R. - 4.25	2.063	3.813				16"	N/A	12	N/A	N/A	1670	660
18 - 30	23'-10"	106	D.R. - 4.25	1.938	3.688	14"	N/A	N/A	N/A	N/A	2094	715				
65 PSF	12 - 16	9'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12	13	1	8	N/A	309	
	18 - 22		93	D.R. - 2.25	N/A	N/A				12	13	1	8	N/A	310	
	24 - 30		94	D.R. - 2.75	N/A	N/A				10	11	N/A	N/A	N/A	311	
	12 - 16	13'-9"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	21	1	8	853	447	
	18 - 24		99	0.625	1.625	22				24	2	16	853	447		
	26 - 30		111	D.R. - 3.00	0.875	2.000				24	24	2	16	529	447	
	16 - 24	15'-2"	101	D.R. - 3.75	1.125	2.625			24"	23	24	2	16	789	493	
	26 - 30		110	1.125	2.625	24				24	2	16	789	493		
	18 - 30	18'-3"	110	D.R. - 3.75	1.125	2.625				19"	N/A	14	N/A	N/A	1684	593
	18 - 30	21'	104	D.R. - 4.25	2.063	3.813				16"	N/A	12	N/A	N/A	1645	683
18 - 30	22'-10"	106	D.R. - 4.25	1.938	3.688	13"	N/A	N/A	N/A	N/A	2097	742				

DuraCoil - Insulated Flat Slat 20 Ga.

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
20 PSF	12 - 16	17'-9"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	20	24	1	8	N/A	178		
	18 - 22		93	D.R. - 2.25	N/A	N/A				20	24	1	8	N/A	179		
	24 - 30		94	D.R. - 2.75	N/A	N/A				17	20	2	16	N/A	180		
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24	24	1	8	768	220		
	18 - 24		99		0.625	1.625				24	24	2	16	768	220		
	26 - 30		111		D.R. - 3.00	1.00				2.125	24	24	2	16	495	220	
	16 - 24	26'	101	D.R. - 3.75	1.125	2.625			24"	23	24	2	16	866	260		
	26 - 30		110		1.125	2.625				24	24	2	16	866	260		
	18 - 24		110		D.R. - 3.75	1.125				2.625	24"	18	20	2	16	1261	300
	26 - 30	30'	103	D.R. - 4.25	1.875	3.625			24"	22	23	2	16	911	300		
	18 - 22		103		D.R. - 4.25	1.875				3.625	19	20	2	16	1068	320	
	24 - 30		104		D.R. - 4.25	1.875				3.625	19	20	2	16	1068	320	
12 - 16	15'-10"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2			3/8"	24"	18	21	1	8	N/A	198	
18 - 22		93	D.R. - 2.25	N/A	N/A						18	21	1	8	N/A	199	
24 - 30		94	D.R. - 2.75	N/A	N/A						16	18	2	16	N/A	200	
25 PSF	12 - 16	21'-8"	98	D.R. - 2.75	0.625	1.625			1/2" Gr 5	1/2"	24"	17	19	1	8	1041	271
	18 - 24		99		0.625	1.625						20	21	2	16	1041	271
	26 - 30		111		D.R. - 3.00	1.000						2.125	24	24	2	16	707
	16 - 24	24'-10"	101	D.R. - 3.75	1.125	2.625	24"	20			21	2	16	1037	310		
	26 - 30		110		1.125	2.625		22			23	2	16	1037	310		
	18 - 24		110		D.R. - 3.75	1.125		2.625			20"	12	15	N/A	N/A	1648	375
	26 - 30	30'	103	D.R. - 4.25	1.875	3.625	24"	16			18	2	16	1211	375		
	18 - 22		103		2.125	3.875		23"			14	16	N/A	N/A	1291	399	
	24 - 30		104		D.R. - 4.25	1.875		3.625			22"	12	15	N/A	N/A	1391	399
	18 - 30	32'	104	D.R. - 4.25	1.875	3.625	22"	12			15	N/A	N/A	1399	400		
	12 - 16		92		D.R. - 2.00	N/A		N/A			17	19	1	8	N/A	218	
	18 - 22		93		D.R. - 2.25	N/A		N/A			17	19	1	8	N/A	219	
24 - 30	14'-6"	94	D.R. - 2.75		N/A	N/A	24"	14			16	N/A	N/A	N/A	220		
12 - 16		98	D.R. - 2.75	0.625	1.625	18		19			1	8	1015	298			
18 - 24		99		0.625	1.625	20		21			2	16	1015	298			
26 - 30	22'-6"	111		D.R. - 3.00	1.000	2.125	24"	24	24	2	16	664	298				
16 - 24		101	D.R. - 3.75	1.125	2.625	20		21	2	16	996	338					
26 - 30		110		1.125	2.625	23		24	2	16	996	338					
30 PSF	18 - 30	28'-11"	110	D.R. - 3.75	1.125	2.625	17"	N/A	12	N/A	N/A	1888	434				
	18 - 30		104		D.R. - 4.25	1.875		3.625	N/A	12	N/A	N/A	1729	480			
	12 - 16		19'-10"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	15	18	1	8	N/A	235	
	18 - 22	93		D.R. - 2.25		N/A	N/A				15	18	1	8	N/A	236	
	24 - 30	94		D.R. - 2.75		N/A	N/A				13	15	N/A	N/A	N/A	237	
	12 - 16	18'-5"	98	D.R. - 2.75	0.625	1.625	24"			18	20	1	8	983	322		
	18 - 24		99		0.625	1.625				20	22	2	16	983	322		
	26 - 30		111		D.R. - 3.00	1.000				2.125	24	24	2	16	617	322	
	16 - 24	20'-10"	101	D.R. - 3.75	1.125	2.625	24"			20	22	2	16	970	365		
	26 - 30		110		1.125	2.625				23	24	2	16	970	365		
	18 - 30		110		D.R. - 3.75	1.125				2.625	17"	N/A	12	N/A	N/A	1855	461
	18 - 30	30'	104	D.R. - 4.25	2.063	3.813	16"			N/A	12	N/A	N/A	1714	525		
18 - 30	106		D.R. - 4.25		1.875	3.625				15"	N/A	N/A	N/A	N/A	2060	560	
12 - 16	12'-6"		92	D.R. - 2.00	N/A	N/A	24"			14	17	1	8	N/A	250		
18 - 22		93	D.R. - 2.25		N/A	N/A				14	17	1	8	N/A	251		
24 - 30		94	D.R. - 2.75		N/A	N/A				12	14	N/A	N/A	N/A	252		
40 PSF	12 - 16	17'-4"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	961	347		
	18 - 24		99		0.625	1.625				21	22	2	16	961	347		
	26 - 30		111		D.R. - 3.00	1.000				2.125	24	24	2	16	579	347	
	16 - 24	19'-6"	101	D.R. - 3.75	1.125	2.625			24"	21	22	2	16	940	390		
	26 - 30		110		1.125	2.625				23	24	2	16	940	390		
	18 - 30		110		D.R. - 3.75	1.125				2.625	18"	N/A	12	N/A	N/A	1825	487
	18 - 30	27'-1"	104	D.R. - 4.25	2.063	3.813			17"	N/A	12	N/A	N/A	1609	542		
	18 - 30		106		D.R. - 4.25	1.875				3.625	13"	N/A	N/A	N/A	N/A	2390	640

DuraCoil - Insulated Flat Slat 18 Ga.

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
20 PSF	12 - 16	18'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	20	23	1	8	N/A	185	
	18 - 22		93	D.R. - 2.25	N/A	N/A				20	23	1	8	N/A	186	
	24 - 30		94	D.R. - 2.75	N/A	N/A				17	19	2	16	N/A	187	
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24	24	1	8	684	220	
	18 - 24		99		0.625	1.625				24	24	2	16	684	220	
	26 - 30	111	D.R. - 3.00	1.000	2.125	24"			24	24	1	8	411	220		
	16 - 24	101	D.R. - 3.75	1.125	2.625				24	24	2	16	805	260		
	26 - 30	110		1.125	2.625	24"			24	24	2	16	805	260		
	18 - 24	110	D.R. - 3.75	1.125	2.625				24"	19	20	2	16	1215	300	
	26 - 30	103	D.R. - 4.25	1.875	3.625	23				24	2	16	866	300		
	18 - 22	103	D.R. - 4.25	1.875	3.625	24"			16	17	2	16	1267	350		
	24 - 30	104		1.875	3.625				15	17	N/A	N/A	1267	350		
18 - 30	40'	104	D.R. - 4.25	1.875	3.625	19"			N/A	12	N/A	N/A	1660	400		
12 - 16	92	D.R. - 2.00	N/A	N/A	18				20	1	8	N/A	206			
25 PSF	18 - 22	16'-6"	93	D.R. - 2.25	N/A	N/A			3/8" Gr 2	3/8"	24"	18	20	1	8	N/A
	24 - 30		94	D.R. - 2.75	N/A	N/A	15	17				N/A	N/A	N/A	208	
	12 - 16		98	D.R. - 2.75	0.625	1.625	18	20				1	8	1010	275	
	18 - 24	22'	99		0.625	1.625	24"	20	22	2	16	1010	275			
	26 - 30		111	D.R. - 3.00	1.000	2.125		24	24	2	16	669	275			
	16 - 24	25'-4"	101	D.R. - 3.75	1.125	2.625	24"	20	21	2	16	1034	317			
	26 - 30		110		1.125	2.625		22	23	2	16	1034	317			
	18 - 24	30'	110	D.R. - 3.75	1.125	2.625	1/2" Gr 5	1/2"	20"	12	15	N/A	N/A	1602	375	
	26 - 30		103	D.R. - 4.25	1.875	3.625			24"	17	18	2	16	1166	375	
	18 - 22	32'-3"	103		2.125	3.875	23"	15	16	N/A	N/A	1281	403			
	24 - 30		104		1.875	3.625		22"	12	15	N/A	N/A	1383	403		
	18 - 30	37'	104	D.R. - 4.25	2.063	3.813	16"	N/A	12	N/A	N/A	1739	463			
	18 - 30	40'	106	D.R. - 4.25	1.875	3.625		15"	N/A	N/A	N/A	N/A	2121	500		
	30 PSF	12 - 16	15'-1"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	16	18	1	8	N/A	226
		18 - 22		93	D.R. - 2.25	N/A	N/A				16	18	1	8	N/A	227
24 - 30		94		D.R. - 2.75	N/A	N/A	14				16	N/A	N/A	N/A	228	
12 - 16		20'-3"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	996	304	
18 - 24			99		0.625	1.625				20	22	2	16	996	304	
26 - 30		111	D.R. - 3.00	1.000	2.125	24"			24	24	2	16	634	304		
16 - 24		101	D.R. - 3.75	1.125	2.625				24"	20	21	2	16	992	345	
26 - 30		110		1.125	2.625	23				24	2	16	992	345		
18 - 30		29'	110	D.R. - 3.75	1.125	2.625			17"	N/A	12	N/A	N/A	1851	435	
18 - 30		33'	104	D.R. - 4.25	2.063	3.813				16"	N/A	12	N/A	N/A	1704	495
18 - 30		40'	106	D.R. - 4.25	1.938	3.688			12"		N/A	N/A	N/A	N/A	2538	600
12 - 16		13'-11"	92	D.R. - 2.00	N/A	N/A				24"	15	17	1	8	N/A	244
18 - 22	93		D.R. - 2.25	N/A	N/A	15			17		1	8	N/A	245		
24 - 30	94		D.R. - 2.75	N/A	N/A	13			15		N/A	N/A	N/A	246		
12 - 16	18'-11"		98	D.R. - 2.75	0.625	1.625			24"	18	20	1	8	981	331	
18 - 24		99		0.625	1.625	20	22	2		16	981	331				
26 - 30		111	D.R. - 3.00	1.000	2.125	24	24	2		16	600	331				
16 - 24		101	D.R. - 3.75	1.125	2.625	24"	21	22		2	16	950	372			
26 - 30	110		1.125	2.625	23		24	2	16	950	372					
18 - 30	26'-8"	110	D.R. - 3.75	1.125	2.625	1/2" Gr 5	1/2"	17"	N/A	12	N/A	N/A	1849	467		
18 - 30	30'-6"	104	D.R. - 4.25	2.063	3.813				16"	N/A	12	N/A	N/A	1729	534	
18 - 30	40'	106	D.R. - 4.25	1.938	3.688			11"		N/A	N/A	N/A	N/A	3045	700	
12 - 16	13'	92	D.R. - 2.00	N/A	N/A				3/8" Gr 2	3/8"	24"	14	16	1	8	N/A
18 - 22		93	D.R. - 2.25	N/A	N/A			14				16	1	8	N/A	261
24 - 30		94	D.R. - 2.75	N/A	N/A			12				14	N/A	N/A	N/A	262
12 - 16	17'-9"	98	D.R. - 2.75	0.625	1.625			1/2" Gr 5	1/2"	24"	19	20	1	8	938	355
18 - 24		99		0.625	1.625						21	23	2	16	938	355
26 - 30	111	D.R. - 3.00	1.000	2.125	24"					24	24	2	16	541	355	
16 - 24	101	D.R. - 3.75	1.125	2.625						24"	21	23	2	16	918	398
26 - 30	110		1.125	2.625	24						24	2	16	918	398	
18 - 30	24'-8"	110	D.R. - 3.75	1.125	2.625					18"	N/A	12	N/A	N/A	1816	493
18 - 30	28'-3"	104	D.R. - 4.25	2.063	3.813	16"	N/A				12	N/A	N/A	1714	565	
18 - 30	38'-7"	106	D.R. - 4.25	1.938	3.688		10"				N/A	N/A	N/A	N/A	3242	772

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
45 PSF	12 - 16	12'-3"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13	15	1	8	N/A	276
	18 - 22		93	D.R. - 2.25	N/A	N/A				13	15	1	8	N/A	277
	24 - 30		94	D.R. - 2.75	N/A	N/A				11	13	N/A	N/A	N/A	278
	12 - 16	16'-11"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	20	1	8	930	381
	18 - 24		99		0.625	1.625				21	23	2	16	930	381
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	515	381
	16 - 24	18'-10"	101	D.R. - 3.75	1.125	2.625			24"	21	23	2	16	886	424
	26 - 30		110		1.125					24	24	2	16	886	424
	18 - 30		23'	110	D.R. - 3.75	1.125				2.625	18"	N/A	13	N/A	N/A
	18 - 30	26'	104	D.R. - 4.25	2.063	3.813			16"	N/A	12	N/A	N/A	1632	585
	18 - 30	35'-8"	106	D.R. - 4.25	1.938	3.688			10"	N/A	N/A	N/A	N/A	3207	802
	50 PSF	12 - 16	11'-8"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12	14	1	8	N/A
18 - 22		93		D.R. - 2.25	N/A	N/A	12				14	1	8	N/A	293
24 - 30		94		D.R. - 2.75	N/A	N/A	10				12	N/A	N/A	N/A	294
12 - 16		16'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	21	1	8	905	404
18 - 24			99		0.625	1.625				21	23	2	16	905	404
26 - 30			111	D.R. - 3.00	1.000	2.125				24	24	2	16	475	404
18 - 30		17'-11"	101	D.R. - 3.75	1.125	2.625			24"	22	24	2	16	851	448
18 - 30			110		1.125	2.625				24	24	2	16	851	448
18 - 30			21'-9"	110	D.R. - 3.75	1.125				2.625	18"	N/A	13	N/A	N/A
18 - 30		25'	104	D.R. - 4.25	2.063	3.813			16"	N/A	12	N/A	N/A	1695	625
18 - 30		33'-2"	106	D.R. - 4.25	1.938	3.688			10"	N/A	N/A	N/A	N/A	3157	829
55 PSF		12 - 16	11'-1"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12	14	1	8	N/A
	18 - 22	93		D.R. - 2.25	N/A	N/A	12				14	1	8	N/A	306
	24 - 30	94		D.R. - 2.75	N/A	N/A	10				12	N/A	N/A	N/A	307
	12 - 16	15'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	21	1	8	871	426
	18 - 24		99			1.625				22	24	2	16	871	426
	26 - 30		111	D.R. -3.00	1.000	2.125				24	24	2	16	427	426
	16 - 24	17'-2"	101	D.R. - 3.75	1.125	2.625			24"	22	24	2	16	824	472
	26 - 30		110		1.125	2.625				24	24	2	16	824	472
	18 - 30		20'-7"	110	D.R. - 3.75	1.125				2.625	19"	N/A	14	N/A	N/A
	18 - 30	23'-9"	104	D.R. - 4.25	2.063	3.813			16"	N/A	12	N/A	N/A	1683	653
	18 - 30	31'-2"	106	D.R. - 4.25	1.938	3.688			10"	N/A	N/A	N/A	N/A	3128	857
	60 PSF	12 - 16	10'-8"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	11	13	1	8	N/A
18 - 22		93		D.R. - 2.25	N/A	N/A	11				13	1	8	N/A	321
24 - 30		94		D.R. - 2.75	N/A	N/A	N/A				11	N/A	N/A	N/A	N/A
12 - 16		14'-11"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20	22	1	8	835	448
18 - 24			99		0.625	1.625				23	24	2	16	835	448
26 - 30			111	D.R. - 3.00	1.000	2.125				24	24	2	16	377	448
16 - 24		16'-6"	101	D.R. - 3.75	1.125	2.625			24"	23	24	2	16	791	495
26 - 30			110		1.125	2.625				24	24	2	16	791	495
18 - 30			19'-8"	110	D.R. - 3.75	1.125				2.625	19"	N/A	14	N/A	N/A
18 - 30		22'-9"	104	D.R. - 4.25	2.063	3.813			16"	N/A	12	N/A	N/A	1686	683
18 - 30		29'-5"	106	D.R. - 4.25	1.938	3.688			10"	N/A	N/A	N/A	N/A	3091	882
65 PSF		12 - 16	10'-3"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	11	12	1	8	N/A
	18 - 22	93		D.R. - 2.25	N/A	N/A	11				12	1	8	N/A	334
	24 - 30	94		D.R. - 2.75	N/A	N/A	N/A				11	N/A	N/A	N/A	N/A
	12 - 16	14'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	21	1	8	840	471
	18 - 24		99		0.625	1.625				22	24	2	16	840	471
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	364	471
	16 - 24	15'-11"	101	D.R. - 3.75	1.125	2.625			24"	23	24	2	16	759	517
	26 - 30		110		1.125	2.625				24	24	2	16	759	517
	18 - 30		18'-10"	110	D.R. - 3.75	1.125				2.625	20"	N/A	14	N/A	N/A
	18 - 30	21'-10"	104	D.R. - 4.25	2.063	3.813			16"	N/A	12	N/A	N/A	1678	710
	18 - 30	27'-11"	106	D.R. - 4.25	1.938	3.688			10"	N/A	N/A	N/A	N/A	3058	907

DuraCoil - Flat Slat 24 Ga.

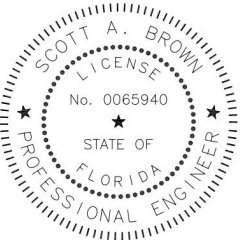
Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
20 PSF	12 - 16	11'	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	24	24	1	8	N/A	110
	18 - 22		90	D.R. - 2.25	N/A	N/A				24	24	1	8	N/A	110
	24 - 30		91	D.R. - 2.75	N/A	N/A				24	24	1	8	N/A	110
	12 - 16	16'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24	24	1	8	482	160
	18 - 24		99		0.625	1.625				24	24	2	16	482	160
	26 - 30		111		0.875	2.000				24	24	1	8	357	160
25 PSF	12 - 16	9'-9"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	24	24	1	8	N/A	122
	18 - 22		90	D.R. - 2.25	N/A	N/A				24	24	1	8	N/A	122
	24 - 30		91	D.R. - 2.75	N/A	N/A				24	24	1	8	N/A	122
	12 - 16	16'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24	24	1	8	684	200
	18 - 24		99		0.625	1.625				24	24	2	16	684	200
	26 - 30		111		D.R. - 3.00	0.875				2.000	24	24	2	16	528
30 PSF	12 - 16	8'-11"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	24	24	1	8	N/A	134
	18 - 22		90	D.R. - 2.25	N/A	N/A				24	24	1	8	N/A	134
	24 - 30		91	D.R. - 2.75	N/A	N/A				23	24	1	8	N/A	134
	12 - 16	16'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20	22	1	8	887	240
	18 - 24		99		0.625	1.625				23	24	2	16	887	240
	26 - 30		111		D.R. - 3.00	0.875				2.000	24	24	2	16	699
35 PSF	12 - 16	8'-3"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	24	24	1	8	N/A	144
	18 - 22		90	D.R. - 2.25	N/A	N/A				24	24	1	8	N/A	144
	24 - 30		91	D.R. - 2.75	N/A	N/A				22	24	1	8	N/A	144
	12 - 16	15'-8"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	19	1	8	1031	274
	18 - 24		99		0.625	1.625				20	21	2	16	1031	274
	26 - 30		111		D.R. - 3.00	0.750				1.875	23	24	2	16	912
16 - 30	16'	111	D.R. - 3.75	0.875	2.000	1/2" Gr 5	1/2"	24"	23	24	2	16	870	280	
40 PSF	12 - 16	7'-9"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	24	24	1	8	N/A	155
	18 - 22		90	D.R. - 2.25	N/A	N/A				24	24	1	8	N/A	155
	24 - 30		91	D.R. - 2.75	N/A	N/A				20	23	2	16	N/A	155
	12 - 16	14'-7"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	19	1	8	1015	292
	18 - 24		99		0.625	1.625				20	21	2	16	1015	292
	26 - 30		111		D.R. - 3.00	0.625				1.750	20	22	2	16	1015
16 - 30	16'	111	D.R. - 3.75	0.875	2.000	1/2" Gr 5	1/2"	24"	20	21	2	16	1041	320	
45 PSF	12 - 16	7'-3"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	22	24	1	8	N/A	163
	18 - 22		90	D.R. - 2.25	N/A	N/A				22	24	1	8	N/A	163
	24 - 30		91	D.R. - 2.75	N/A	N/A				19	22	2	16	N/A	163
	12 - 16	12'-9"	98	D.R. - 2.75	0.438	1.438	1/2" Gr 5	1/2"	24"	18	19	1	8	1033	287
	18 - 24		99		0.438	1.438				20	21	2	16	1033	287
	26 - 30		111		D.R. - 3.00	0.438				1.563	20	22	2	16	1033
18 - 30	16'	105	D.R. - 3.75	0.875	2.000	1/2" Gr 5	1/2"	24"	17	18	2	16	1212	360	
50 PSF	12 - 16	6'-11"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	21	24	1	8	N/A	173
	18 - 22		90	D.R. - 2.25	N/A	N/A				21	24	1	8	N/A	173
	24 - 30		91	D.R. - 2.75	N/A	N/A				18	21	2	16	N/A	173
	16 - 30	12'-1"	111	D.R. - 3.00	0.375	1.500	1/2" Gr 5	1/2"	24"	18	20	2	16	1141	302
	18 - 30	16'	105	D.R. - 3.00	0.875	2.000			24"	13	16	N/A	N/A	1383	400
55 PSF	12 - 16	6'-7"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	20	23	1	8	N/A	181
	18 - 22		90	D.R. - 2.25	N/A	N/A				20	23	1	8	N/A	181
	24 - 30		91	D.R. - 2.75	N/A	N/A				17	20	2	16	N/A	181
	18 - 30	16'	105	D.R. - 3.00	0.875	2.000	1/2" Gr 5	1/2"	21"	N/A	14	N/A	N/A	1554	440
60 PSF	12 - 16	6'-4"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	19	22	1	8	N/A	190
	18 - 22		90	D.R. - 2.25	N/A	N/A				19	22	1	8	N/A	190
	24 - 30		91	D.R. - 2.75	N/A	N/A				16	19	2	16	N/A	190
	18 - 30	16'	105	D.R. - 3.00	0.875	2.000	1/2" Gr 5	1/2"	19"	N/A	12	N/A	N/A	1725	480
65 PSF	12 - 16	6'	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	19	22	1	8	N/A	195
	18 - 22		90	D.R. - 2.25	N/A	N/A				19	22	1	8	N/A	195
	24 - 30		91	D.R. - 2.75	N/A	N/A				16	18	2	16	N/A	195
	18 - 30	16'	110	D.R. - 3.75	0.875	2.375	1/2" Gr 5	1/2"	17"	N/A	12	N/A	N/A	1896	520

Notes:
D.R. = Design Reference
N/A = Not Applicable

CMU Anchor Types:
Type 1: 1/2" Dia. Titen HD, 2-3/4" min. embedment
Type 2: 1/2" Dia. Rod w/HIT-HY200, 6-3/4" min. embedment

See anchor manufacturer's installation guides for spacing restrictions for CMU block.

Alternate design may be approved by a licensed professional engineer.



Scott A. Brown, P.E. Lic. No. 65940
Willett Hofmann & Associates, Inc.
809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Scott A. Brown
Digitally signed by Scott A Brown
Date: 2026.09.01 17:13:32-05'00'

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Scale: None
Drawn by: M. Reutzel
Checked by: J. Bonnell
Date: 06/05/2026
ECO: 6939.01



Title: Spec, Wind Load Rolling Steel - FF, IF		
No.	P-2184	Rev F

DuraCoil - Flat Slat 22 Ga.

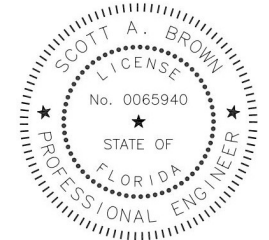
Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
20 PSF	12 - 16	14'-6"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	24	24	1	8	N/A	145
	18 - 22		90	D.R. - 2.25	N/A	N/A				24	24	1	8	N/A	146
	24 - 30		91	D.R. - 2.75	N/A	N/A				21	24	1	8	N/A	147
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	17	19	1	8	1083	220
	18 - 24		99		0.625	1.625				19	21	2	16	1083	220
	26 - 30		111		1.000	2.125				24	24	2	16	809	220
25 PSF	12 - 16	13'	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	22	24	1	8	N/A	163
	18 - 22		90	D.R. - 2.25	N/A	N/A				22	24	1	8	N/A	164
	24 - 30		91	D.R. - 2.75	N/A	N/A				19	22	2	16	N/A	165
	12 - 16	19'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	1011	238
	18 - 24		99		0.625	1.625				20	22	2	16	1011	238
	26 - 30		111		D.R. - 3.00	1.000				2.125	24	24	2	16	737
	16 - 24	22'	101	D.R. - 3.75	1.125	2.625			24"	21	22	2	16	994	275
	26 - 30		110		1.125	2.625				23	24	2	16	994	275
30 PSF	12 - 16	11'-10"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	20	24	1	8	N/A	177
	18 - 22		90	D.R. - 2.25	N/A	N/A				20	24	1	8	N/A	178
	24 - 30		91	D.R. - 2.75	N/A	N/A				17	20	2	16	N/A	179
	12 - 16	17'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	19	1	8	1037	263
	18 - 24		99		0.625	1.625				20	21	2	16	1037	263
	26 - 30		111		D.R. - 3.00	1.000				2.125	24	24	2	16	746
18 - 30	22'	110	D.R. - 3.75	1.125	2.625	24"			19	20	2	16	1237	330	
35 PSF	12 - 16	10'-11"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	19	22	1	8	N/A	191
	18 - 22		90	D.R. - 2.25	N/A	N/A				19	22	1	8	N/A	192
	24 - 30		91	D.R. - 2.75	N/A	N/A				16	19	2	16	N/A	193
	12 - 16	16'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	19	1	8	1027	283
	18 - 24		99		0.625	1.625				20	21	2	16	1027	283
	26 - 30		111		D.R. - 3.00	1.000				2.125	24	24	2	16	726
	18 - 30	22'	110	D.R. - 3.75	1.125	2.625			24"	15	16	N/A	N/A	1480	385
40 PSF	12 - 16	10'-3"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	18	20	1	8	N/A	205
	18 - 22		90	D.R. - 2.25	N/A	N/A				18	20	1	8	N/A	206
	24 - 30		91	D.R. - 2.75	N/A	N/A				15	17	N/A	N/A	N/A	207
	12 - 16	15'-1"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	19	1	8	1009	302
	18 - 24		99		0.625	1.625				20	22	2	16	1009	302
	26 - 30		111		D.R. - 3.00	0.750				1.875	23	24	2	16	880
18 - 30	22'	110	D.R. - 3.75	1.125	2.625	23"			N/A	14	N/A	N/A	1723	440	
45 PSF	12 - 16	9'-8"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	17	19	1	8	N/A	218
	18 - 22		90	D.R. - 2.25	N/A	N/A				17	19	1	8	N/A	219
	24 - 30		91	D.R. - 2.75	N/A	N/A				14	16	N/A	N/A	N/A	220
	12 - 16	14'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	981	319
	18 - 24		99		0.625	1.625				21	22	2	16	981	319
	26 - 30		111		D.R. - 3.00	0.625				1.750	21	22	2	16	981
	18 - 30	21'-3"	110	D.R. - 3.75	1.125	2.625			22"	N/A	12	N/A	N/A	1840	478
	18 - 30		104		D.R. - 4.25	2.000				3.750	N/A	15	N/A	N/A	1419
50 PSF	12 - 16	9'-2"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	16	18	1	8	N/A	229
	18 - 22		90	D.R. - 2.25	N/A	N/A				16	18	1	8	N/A	230
	24 - 30		91	D.R. - 2.75	N/A	N/A				13	16	N/A	N/A	N/A	231
	16 - 30	13'-3"	111	D.R. - 3.00	0.500	1.625	1/2" Gr 5	1/2"	24"	19	20	2	16	1092	331
	18 - 30	18'-5"	105	D.R. - 3.00	1.000	2.125			17"	N/A	12	N/A	N/A	1658	460
	18 - 30	20'	107	D.R. - 3.75	1.125	2.625			15"	N/A	12	N/A	N/A	1839	500
18 - 30	22'	104	D.R. - 4.25	2.062	3.812	17"			N/A	12	N/A	N/A	1574	550	
55 PSF	12 - 16	8'-9"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	15	17	1	8	N/A	241
	18 - 22		90	D.R. - 2.25	N/A	N/A				15	17	1	8	N/A	242
	24 - 30		91	D.R. - 2.75	N/A	N/A				13	15	N/A	N/A	N/A	243
	16 - 30	12'-2"	111	D.R. - 3.00	0.406	1.531	1/2" Gr 5	1/2"	24"	19	20	2	16	1104	335
	18 - 30	17'-6"	105	D.R. - 3.00	1.000	2.125			17"	N/A	12	N/A	N/A	1662	481
	18 - 30	18'-11"	107	D.R. - 3.75	1.125	2.625			16"	N/A	12	N/A	N/A	1832	520
	18 - 30	21'	104	D.R. - 4.25	2.062	3.812			16"	N/A	12	N/A	N/A	1599	578
	18 - 30		104		D.R. - 4.25	2.062				3.812	N/A	N/A	N/A	N/A	1754
60 PSF	12 - 16	8'-4"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	14	17	1	8	N/A	250
	18 - 22		90	D.R. - 2.25	N/A	N/A				14	17	1	8	N/A	251
	24 - 30		91	D.R. - 2.75	N/A	N/A				12	14	N/A	N/A	N/A	252
	18 - 30	16'-8"	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	17"	N/A	12	N/A	N/A	1654	500
	18 - 30	18'	107	D.R. - 3.75	1.125	2.625			15"	N/A	12	N/A	N/A	1828	540
	18 - 30	20'-6"	104	D.R. - 4.25	2.062	3.812			15"	N/A	12	N/A	N/A	1683	615
18 - 30	22'	106	D.R. - 4.25	1.938	3.688	15"			N/A	N/A	N/A	N/A	2002	660	
65 PSF	12 - 16	6'-8"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	17	19	1	8	N/A	217
	18 - 22		90	D.R. - 2.25	N/A	N/A				17	19	1	8	N/A	218
	24 - 30		91	D.R. - 2.75	N/A	N/A				14	16	N/A	N/A	N/A	219
	18 - 30	15'-5"	105	D.R. - 3.00	0.875	2.000	1/2" Gr 5	1/2"	17"	N/A	12	N/A	N/A	1650	501
	18 - 30	17'-2"	107	D.R. - 3.75	1.125	2.625			15"	N/A	12	N/A	N/A	1814	558
18 - 30	21'-5"	106	D.R. - 4.25	1.938	3.688										

Notes:
D.R. = Design Reference
N/A = Not Applicable

CMU Anchor Types:
Type 1: 1/2" Dia. Titen HD, 2-3/4" min. embedment
Type 2: 1/2" Dia. Rod w/HIT-HY200, 6-3/4" min. embedment

See anchor manufacturer's installation guides for spacing restrictions for CMU block.

Alternate design may be approved by a licensed professional engineer.



Scott A. Brown, P.E. Lic. No. 65940
Willett Hofmann & Associates, Inc.
809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Scott A. Brown
Digitally signed by Scott A Brown
Date: 2026.09.01 17:13:54-05'00'

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Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load Rolling Steel - FF, IF		
Drawn by: M. Reutzel				
Checked by: J. Bonnell				
Date: 06/05/2026				
ECO: 6939.01		No. P-2184	Sheet 12	Rev F

DuraCoil - Flat Slat 20 Ga.

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
20 PSF	12 - 16	16'	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	23	24	1	8	N/A	160	
	18 - 22		90	D.R. - 2.25	N/A	N/A				23	24	1	8	N/A	161	
	24 - 30		91	D.R. - 2.75	N/A	N/A				19	23	2	16	N/A	162	
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	19	1	8	1041	220	
	18 - 24		99		0.625	1.625				20	21	2	16	1041	220	
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	767	220	
	18 - 24	26'	101	D.R. - 3.75	1.125	2.625			24"	20	21	2	16	1060	260	
	26 - 30		110		1.125	2.625				22	23	2	16	1060	260	
18 - 30	103		D.R. - 4.25		1.875	3.625				19	20	2	16	1058	300	
25 PSF	12 - 16	14'-3"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	20	24	1	8	N/A	178	
	18 - 22		90	D.R. - 2.25	N/A	N/A				20	24	1	8	N/A	179	
	24 - 30		91	D.R. - 2.75	N/A	N/A				17	20	2	16	N/A	180	
	12 - 16	19'-9"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	17	19	1	8	1059	247	
	18 - 22		99		0.625	1.625				20	21	2	16	1059	247	
	24 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	769	247	
	16 - 24	23'-1"	101	D.R. - 3.75	1.125	2.625			24"	19	21	2	16	1067	289	
	26 - 30		110		1.125	2.625				22	23	2	16	1067	289	
	18 - 30		110	D.R. - 3.75	1.125	2.625				24"	17	28	2	16	1373	325
	18 - 24	30'	110	D.R. - 3.75	1.125	2.625			24"	18"	N/A	13	N/A	N/A	1794	375
	26 - 30		103	D.R. - 4.25	2.000	3.750				23"	14	16	N/A	N/A	1310	375
	26 - 30		103	D.R. - 4.25	2.000	3.750	23"	14		16	N/A	N/A	1310	375		
30 PSF	12 - 16	13'	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	19	22	1	8	N/A	195	
	18 - 22		90	D.R. - 2.25	N/A	N/A				19	22	1	8	N/A	196	
	24 - 30		91	D.R. - 2.75	N/A	N/A				16	18	2	16	N/A	197	
	12 - 16	17'-11"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	20	1	8	1040	269	
	18 - 24		99		0.625	1.625				21	22	2	16	1040	269	
	26 - 30		111	D.R. - 3.00	1.000	2.125				24"	24	24	2	16	739	269
	16 - 24	20'-9"	101	D.R. - 3.75	1.125	2.625			24"	21	21	2	16	1039	311	
	26 - 30		110		1.125	2.625				24	24	2	16	1039	311	
	18 - 30		110	D.R. - 3.75	1.125	2.625				19"	15	15	N/A	N/A	1685	390
	18 - 24	27'-10"	110	D.R. - 3.75	1.125	2.625			17"	N/A	13	N/A	N/A	1911	418	
	26 - 30		104	D.R. - 4.25	1.875	3.625			21"	15	15	N/A	N/A	1443	418	
	18 - 30		104	D.R. - 4.25	1.875	3.625			19"	N/A	13	N/A	N/A	1658	450	
	35 PSF	12 - 16	12'	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	17	20	1	8	N/A	210
		18 - 22		90	D.R. - 2.25	N/A	N/A				17	20	1	8	N/A	211
		24 - 30		91	D.R. - 2.75	N/A	N/A				15	17	N/A	N/A	N/A	212
		12 - 16	16'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	19	1	8	1013	289
18 - 24		99		0.625		1.625	20				22	2	16	1013	289	
26 - 30		111		D.R. - 3.00	1.000	2.125	24"				24	24	2	16	703	289
16 - 24		19'	101	D.R. - 3.75	1.125	2.625	24"			20	21	2	16	1012	333	
26 - 30			110		1.125	2.625				22	24	2	16	1012	333	
18 - 30			110	D.R. - 3.75	1.125	2.625				17"	N/A	12	N/A	N/A	1869	439
18 - 30		27'-11"	104	D.R. - 4.25	2.063	3.813	16"			N/A	12	N/A	N/A	1633	489	
18 - 30			104	D.R. - 4.25	2.063	3.813	16"			N/A	N/A	N/A	N/A	1860	525	
12 - 16			89	D.R. - 2.00	N/A	N/A	16			19	1	8	N/A	225		
40 PSF	18 - 22	11'-3"	90	D.R. - 2.25	N/A	N/A	3/8" Gr 2	3/8"	24"	16	19	1	8	N/A	226	
	24 - 30		91	D.R. - 2.75	N/A	N/A				14	16	N/A	N/A	N/A	227	
	12 - 16		98	D.R. - 2.75	0.625	1.625				24"	18	20	1	8	993	308
	18 - 24	99	0.625		1.625	20	22	2	16		993	308				
	26 - 30	111	D.R. - 3.00	0.875	2.000	24"	24	24	2		16	755	308			
	16 - 24	101	D.R. - 3.75	1.125	2.625		1/2" Gr 5	1/2"		20	22	2	16	976	352	
	26 - 30	110		1.125	2.625					23	24	2	16	976	352	
	18 - 30	110	D.R. - 3.75	1.125	2.625					17"	N/A	12	N/A	N/A	1851	462
	18 - 30	25'-9"	104	D.R. - 4.25	2.063	3.813		16"	N/A	12	N/A	N/A	1627	515		
	18 - 30		106	D.R. - 4.25	1.938	3.688		14"	N/A	N/A	N/A	N/A	2219	600		

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
45 PSF	12 - 16	10'-7"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	15	18	1	8	N/A	238	
	18 - 22		90	D.R. - 2.25	N/A	N/A				15	18	1	8	N/A	239	
	24 - 30		91	D.R. - 2.75	N/A	N/A				13	15	N/A	N/A	N/A	240	
	12 - 16	14'-7"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	983	328	
	18 - 24		99		0.625	1.625				20	22	2	16	983	328	
	26 - 30		111	D.R. - 3.00	0.750	1.875				24	24	2	16	845	328	
	16 - 24	16'-6"	101	D.R. - 3.75	1.125	2.625				21	22	2	16	951	371	
	26 - 30		110		1.125	2.625				23	24	2	16	951	371	
	18 - 30	21'-5"	110	D.R. - 3.75	1.125	2.625				18"	N/A	12	N/A	N/A	1823	482
	18 - 30	24'	104	D.R. - 4.25	2.063	3.813				16"	N/A	12	N/A	N/A	1620	540
	18 - 30	30'	106	D.R. - 4.25	1.938	3.688				12"	N/A	N/A	N/A	N/A	2514	675
50 PSF	12 - 16	10'-1"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	14	17	1	8	N/A	252	
	18 - 22		90	D.R. - 2.25	N/A	N/A				14		N/A	N/A	N/A	253	
	24 - 30		91	D.R. - 2.75	N/A	N/A				12	14	N/A	N/A	N/A	254	
	12 - 16	13'-10"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	958	346	
	18 - 24		99		0.625	1.625				21	22	2	16	958	346	
	26 - 30		111	D.R. - 3.00	0.625	1.750				24	21	23	2	16	958	346
	16 - 24	14'-10"	101	D.R. - 3.75	0.813	2.313				20	21	2	16	1002	371	
	26 - 30		110		0.813	2.313				23	24	2	16	1002	371	
	18 - 30	18'-9"	105	D.R. - 3.00	1.000	2.125				17"	N/A	12	N/A	N/A	1665	469
	18 - 30	22'-6"	104	D.R. - 4.25	2.063	3.813				16"	N/A	12	N/A	N/A	1605	563
	18 - 30	28'-2"	106	D.R. - 4.25	1.938	3.688				12"	N/A	N/A	N/A	N/A	2523	704
55 PSF	12 - 16	9'-7"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	14	16	1	8	N/A	264	
	18 - 22		90	D.R. - 2.25	N/A	N/A				14	16	1	8	N/A	265	
	24 - 30		91	D.R. - 2.75	N/A	N/A				12	13	N/A	N/A	N/A	266	
	12 - 16	12'-9"	98	D.R. - 2.75	0.500	1.500	1/2" Gr 5	1/2"	24"	18	20	1	8	983	351	
	18 - 24		99		0.500	1.500				20	22	2	16	983	351	
	26 - 30		111	D.R. - 3.00	0.500	1.625				24	21	22	2	16	983	351
	16 - 30	13'-7"	111	D.R. - 3.00	0.625	1.750				24"	19	21	2	16	1047	374
	18 - 30	17'-9"	105	D.R. - 3.00	1.000	2.125				17"	N/A	12	N/A	N/A	1650	488
	18 - 30	19'-2"	107	D.R. - 3.75	1.125	2.625				18"	N/A	12	N/A	N/A	1827	527
	18 - 30	21'-3"	104	D.R. - 4.25	2.063	3.813				18"	N/A	12	N/A	N/A	1592	584
	18 - 30	26'-7"	106	D.R. - 4.25	1.938	3.688				12"	N/A	N/A	N/A	N/A	2527	731
60 PSF	12 - 16	9'-2"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13	15	1	8	N/A	275	
	18 - 22		90	D.R. - 2.25	N/A	N/A				13	15	1	8	N/A	276	
	24 - 30		91	D.R. - 2.75	N/A	N/A				11	13	N/A	N/A	N/A	277	
	12 - 16	11'-7"	98	D.R. - 2.75	0.375	1.375	1/2" Gr 5	1/2"	24"	18	20	1	8	977	347	
	18 - 24		99		0.375	1.375				21	22	2	16	977	347	
	26 - 30		111	D.R. - 3.00	0.375	1.500				24	21	23	2	16	977	347
	18 - 30	16'-11"	105	D.R. - 3.00	1.000	2.125				17"	N/A	12	N/A	N/A	1640	508
	18 - 30	18'-3"	107	D.R. - 3.75	1.125	2.625				18"	N/A	12	N/A	N/A	1821	548
	18 - 30	20'-3"	104	D.R. - 4.25	2.063	3.813				18"	N/A	12	N/A	N/A	1591	608
	18 - 30	25'-2"	106	D.R. - 4.25	1.938	3.688				12"	N/A	N/A	N/A	N/A	2519	755
	65 PSF	12 - 16	8'-10"	89	D.R. - 2.00	N/A				N/A	3/8" Gr 2	3/8"	24"	12	14	1
18 - 22		90		D.R. - 2.25	N/A	N/A	12	14	1	8				N/A	288	
24 - 30		91		D.R. - 2.75	N/A	N/A	11	12	N/A	N/A				N/A	289	
16 - 30		11'-5"	111	D.R. - 3.00	0.375	1.500	1/2" Gr 5	1/2"	24"	19	21	2	16	1065	371	
18 - 30		16'-3"	105	D.R. - 3.00	1.000	2.125			18"	N/A	12	N/A	N/A	1644	528	
18 - 30		17'-5"	107	D.R. - 3.75	1.125	2.625			18"	N/A	12	N/A	N/A	1805	566	
18 - 30		20'-3"	104	D.R. - 4.25	2.063	3.813			16"	N/A	N/A	N/A	N/A	1750	658	
18 - 30		23'-11"	106	D.R. - 4.25	1.938	3.688	12"	N/A	N/A	N/A	N/A	2507	777			

DuraCoil - Flat Slat 18 Ga.

Design Load	Headplate Size	Door Opening Width Including	Guide Assy No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
20 PSF	12 - 16	17'-4"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	21	24	1	8	N/A	173	
	18 - 22		90	D.R. - 2.25	N/A	N/A				21	24	1	8	N/A	174	
	24 - 30		91	D.R. - 2.75	N/A	N/A				18	21	2	16	N/A	175	
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19	21	1	8	966	220	
	18 - 24		99	0.625	1.625	22				23	2	16	966	220		
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	693	220	
	16 - 24	26'	101	D.R. - 3.75	1.125	2.625			24"	20	22	2	16	1007	260	
	26 - 30		110	1.125	2.625	23				24	2	16	1007	260		
	18 - 24		110	D.R. - 3.75	1.125	2.625				17	18	2	16	1367	300	
	26 - 30	30'	103	D.R. - 3.75	1.875	3.625			24"	20	21	2	16	1018	300	
	18 - 22		103	D.R. - 4.25	1.875	3.625				23"	13	16	N/A	N/A	1378	350
	24 - 30		104	1.875	3.625	13					16	N/A	N/A	1378	350	
18 - 30	40'	104	D.R. - 4.25	2.063	3.813	18"			N/A	12	N/A	N/A	1659	400		
25 PSF	12 - 16	15'-5"	89	D.R. - 2.00	N/A		N/A	3/8" Gr 2	3/8"	24"	19	22	1	8	N/A	193
	18 - 22		90	D.R. - 2.25	N/A	N/A	19				22	1	8	N/A	194	
	24 - 30		91	D.R. - 2.75	N/A	N/A	16				29	2	16	N/A	195	
	12 - 16	20'-4"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	17	19	1	8	1053	254	
	18 - 22		99	0.625	1.625	20				21	2	16	1053	254		
	24 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	749	254	
	16 - 24	23'-7"	101	D.R. - 3.75	1.125	2.625			24"	19	21	2	16	1055	295	
	26 - 30		110	1.125	2.625	22				23	2	16	1055	295		
	18 - 24		110	D.R. - 3.75	1.125	2.625				19"	N/A	14	N/A	N/A	1754	375
	26 - 30	30'	103	D.R. - 4.25	1.875	3.625			23"	14	16	N/A	N/A	1318	375	
	18 - 30		104	D.R. - 4.25	2.063	3.813				18"	N/A	12	N/A	N/A	1668	438
	18 - 30		38'-8"	104	D.R. - 4.25	2.063				3.813	16"	N/A	N/A	N/A	N/A	1983
	18 - 30	40'	106	D.R. - 4.25	1.875	3.625			14"	N/A	N/A	N/A	N/A	N/A	2207	500
	12 - 16	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2				3/8"	24"	17	20	1	8	N/A
	18 - 22	90	D.R. - 2.25	N/A	N/A		17	20	1			8	N/A	212		
	24 - 30	91	D.R. - 2.75	N/A	N/A		15	17	N/A			N/A	N/A	213		
	12 - 16	18'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	19	1	8	1031	278	
	18 - 24		99	0.625	1.625	20				21	2	16	1031	278		
26 - 30	111		D.R. - 3.00	1.000	2.125	24				24	2	16	714	278		
16 - 24	21'-3"	101	D.R. - 3.75	1.125	2.625	24"			20	21	2	16	1022	319		
26 - 30		110	1.125	2.625	22				24	2	16	1022	319			
18 - 30		110	D.R. - 3.75	1.125	2.625				17"	N/A	12	N/A	N/A	1907	422	
18 - 30	32'	104	D.R. - 4.25	2.063	3.813	16"			N/A	12	N/A	N/A	1731	480		
18 - 30	40'	106	D.R. - 4.25	1.875	3.625				12"	N/A	N/A	N/A	N/A	2669	600	
35 PSF	12 - 16	13'	89	D.R. - 2.00	N/A	N/A			3/8" Gr 2	3/8"	24"	16	18	1	8	N/A
	18 - 22		90	D.R. - 2.25	N/A	N/A	16	18				1	8	N/A	229	
	24 - 30		91	D.R. - 2.75	N/A	N/A	14	16				N/A	N/A	N/A	230	
	12 - 16	17'-1"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	1001	299	
	18 - 24		99	0.625	1.625	20				22	2	16	1001	299		
	26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	674	299	
	16 - 24	19'-6"	101	D.R. - 3.75	1.125	2.625			24"	20	22	2	16	989	341	
	26 - 30		110	1.125	2.625	23				24	2	16	989	341		
	18 - 30		110	D.R. - 3.75	1.125	2.625				17"	N/A	12	N/A	N/A	1872	446
	18 - 30	28'-4"	104	D.R. - 4.25	2.063	3.813	16"	N/A	12	N/A	N/A	1633	496			
	18 - 30		106	D.R. - 4.25	1.875	3.625		10"	N/A	N/A	N/A	N/A	3131	700		
	12 - 16		12'-2"	89	D.R. - 2.00	N/A		N/A	3/8" Gr 2	3/8"	24"	15	17	1	8	N/A
18 - 22	90	D.R. - 2.25		N/A	N/A	15	17	1				8	N/A	244		
24 - 30	91	D.R. - 2.75		N/A	N/A	13	15	N/A				N/A	N/A	245		
12 - 16	16'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	979	320		
18 - 24		99	0.625	1.625	21				22	2	16	979	320			
26 - 30		111	D.R. - 3.00	1.000	2.125				24	24	2	16	639	320		
16 - 24	18'-2"	101	D.R. - 3.75	1.125	2.625			24"	21	22	2	16	963	363		
26 - 30		110	1.125	2.625	23				24	2	16	963	363			
18 - 30		110	D.R. - 3.75	1.125	2.625				18"	N/A	12	N/A	N/A	1838	468	
18 - 30	23'-5"	104	D.R. - 4.25	2.063	3.813			18"	N/A	12	N/A	N/A	1614	522		
18 - 30		106	D.R. - 4.25	1.938	3.688				10"	N/A	N/A	N/A	N/A	3252	760	

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Concrete Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	CMU Anchor Type*	CMU Anchor Spacing	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
45 PSF	12 - 16	11'-6"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	14	16	1	8	N/A	259	
	18 - 22		90	D.R. - 2.25	N/A	N/A				14	16	1	8	N/A	260	
	24 - 30		91	D.R. - 2.75	N/A	N/A				12	14	N/A	N/A	N/A	261	
	12 - 16	15'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18	20	1	8	968	341	
	18 - 24		99		0.625	1.625				21	22	2	16	968	341	
	26 - 30		111	D.R. - 3.00	0.875	2.000				24"	24	24	2	16	708	341
	16 - 24	17'-1"	101	D.R. - 3.75	1.125	2.625			24"	21	22	2	16	936	384	
	26 - 30		110		1.125	2.625				24	24	2	16	936	384	
	18 - 30		110	D.R. - 3.75	1.125	2.625				18"	N/A	12	N/A	N/A	1820	491
	18 - 30	24'-4"	104	D.R. - 4.25	2.063	3.813			17"	N/A	12	N/A	N/A	N/A	1604	548
18 - 30	35'	106	D.R. - 4.25	1.938	3.688	10"				N/A	N/A	N/A	N/A	3213	788	
50 PSF	12 - 16	10'-11"	89	D.R. - 2.00	N/A	N/A			3/8" Gr 2	3/8"	24"	13	15	1	8	N/A
	18 - 22		90	D.R. - 2.25	N/A	N/A	13	15				1	8	N/A	274	
	24 - 30		91	D.R. - 2.75	N/A	N/A	11	13				N/A	N/A	N/A	275	
	12 - 16	14'-5"	98	D.R. - 2.75	0.625	1.625	24"	18	20	1	8	942	360			
	18 - 24		99		0.625	1.625		21	23	2	16	942	360			
	26 - 30		111	D.R. - 3.00	0.813	1.938		24"	24	24	2	16	729	360		
	16 - 24	16'-2"	101	D.R. - 3.75	1.125	2.625	1/2" Gr 5	1/2"	24"	21	23	2	16	905	404	
	26 - 30		110		1.125	2.625				24	24	2	16	905	404	
	18 - 30	20'-5"	110	D.R. - 3.75	1.125	2.625				18"	N/A	13	N/A	N/A	1781	510
	18 - 30	22'-11"	104	D.R. - 4.25	2.063	3.813	18"	N/A	12	N/A	N/A	1597	573			
18 - 30	32'-7"	106	D.R. - 4.25	1.938	3.688	10"	N/A	N/A	N/A	N/A	3186	815				
55 PSF	12 - 16	10'-4"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13	15	1	8	N/A	284	
	18 - 22		90	D.R. - 2.25	N/A	N/A				13	15	1	8	N/A	285	
	24 - 30		91	D.R. - 2.75	N/A	N/A				11	12	N/A	N/A	N/A	286	
	12 - 16	13'-10"	98	D.R. - 2.75	0.625	1.625	24"	18	20	1	8	933	380			
	18 - 24		99		0.625	1.625		21	23	2	16	933	380			
	26 - 30		111	D.R. - 3.00	0.688	1.813		24"	23	24	2	16	850	380		
	16 - 24	14'-10"	101	D.R. - 3.75	0.875	2.375	1/2" Gr 5	1/2"	24"	21	22	2	16	934	408	
	26 - 30		110		0.875	2.375				24	24	2	16	934	408	
	18 - 30	19'-4"	110	D.R. - 3.75	1.125	2.625				18"	N/A	13	N/A	N/A	1765	532
	18 - 30	21'-9"	104	D.R. - 4.25	2.063	3.813	18"	N/A	12	N/A	N/A	1596	598			
18 - 30	30'-6"	106	D.R. - 4.25	1.938	3.688	10"	N/A	N/A	N/A	N/A	3152	839				
60 PSF	12 - 16	9'-11"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12	14	1	8	N/A	297	
	18 - 22		90	D.R. - 2.25	N/A	N/A				12	14	1	8	N/A	298	
	24 - 30		91	D.R. - 2.75	N/A	N/A				10	12	N/A	N/A	N/A	299	
	12 - 16	13'	98	D.R. - 2.75	0.563	1.563	24"	19	21	1	8	905	350			
	18 - 24		99		0.563	1.563		22	23	2	16	905	350			
	26 - 30		111	D.R. - 3.00	0.563	1.688		24"	22	24	2	16	905	350		
	18 - 30	16'-6"	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	18"	12	15	N/A	N/A	1408	495	
	18 - 30	18'-8"	107	D.R. - 3.75	1.125	2.625				18"	N/A	12	N/A	N/A	1810	560
	18 - 30	20'-8"	104	D.R. - 4.25	2.063	3.813				17"	N/A	12	N/A	N/A	1579	620
	18 - 30	28'-9"	106	D.R. - 4.25	1.938	3.688	10"	N/A	N/A	N/A	N/A	3124	863			
65 PSF	12 - 16	9'-6"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12	13	1	8	N/A	309	
	18 - 22		90	D.R. - 2.25	N/A	N/A				12	13	1	8	N/A	310	
	24 - 30		91	D.R. - 2.75	N/A	N/A				10	12	N/A	N/A	N/A	311	
	12 - 16	12'-1"	98	D.R. - 2.75	0.438	1.438	24"	18	20	1	8	941	393			
	18 - 24		99		0.438	1.438		21	23	2	16	941	393			
	26 - 30		111	D.R. - 3.00	0.438	1.563		24"	21	23	2	16	941	393		
	18 - 30	15'-10"	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	18"	12	15	N/A	N/A	1393	515	
	18 - 30	17'-11"	107	D.R. - 3.75	1.125	2.625				18"	N/A	12	N/A	N/A	1813	582
	18 - 30	19'-10"	104	D.R. - 4.25	2.063	3.813				17"	N/A	12	N/A	N/A	1582	645
	18 - 30	27'-2"	106	D.R. - 4.25	1.938	3.688	10"	N/A	N/A	N/A	N/A	3084	883			