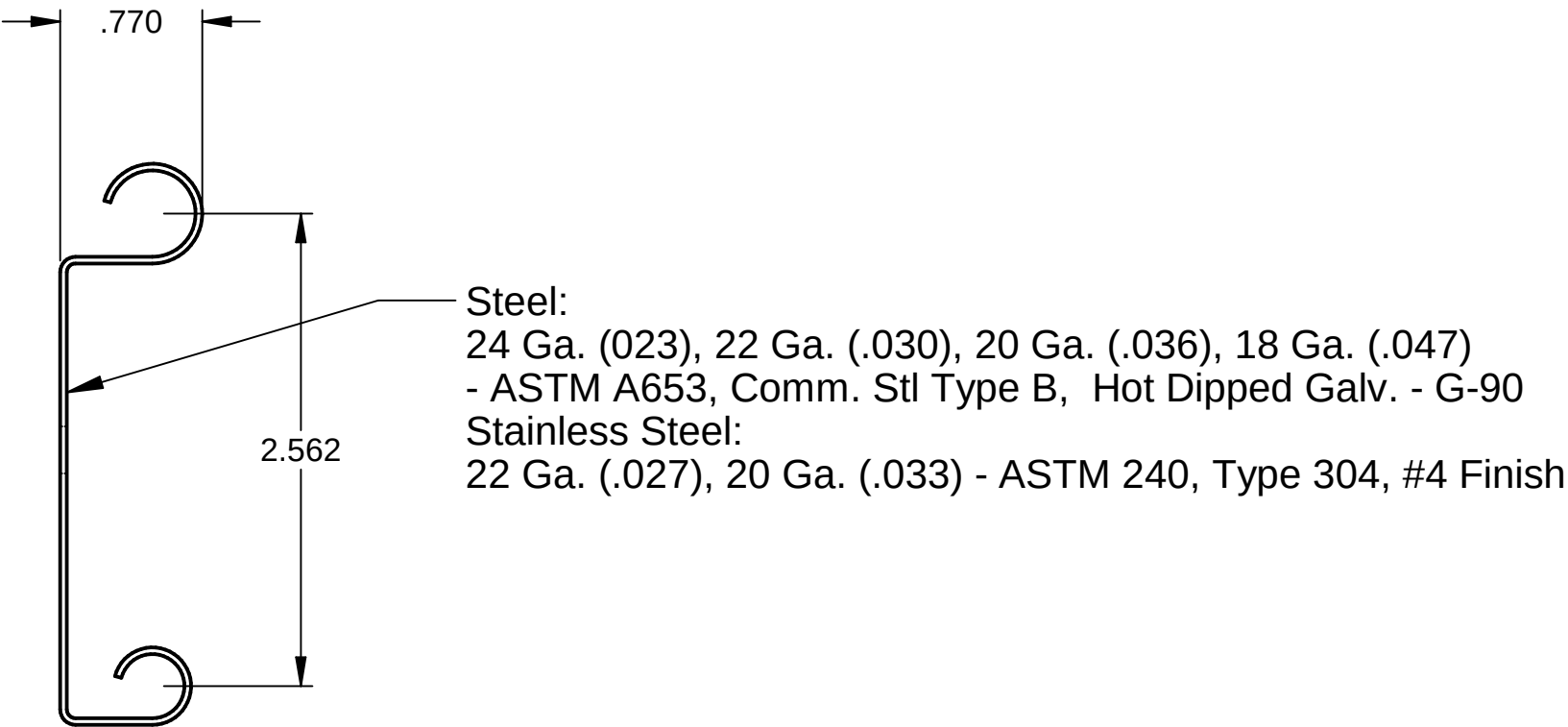


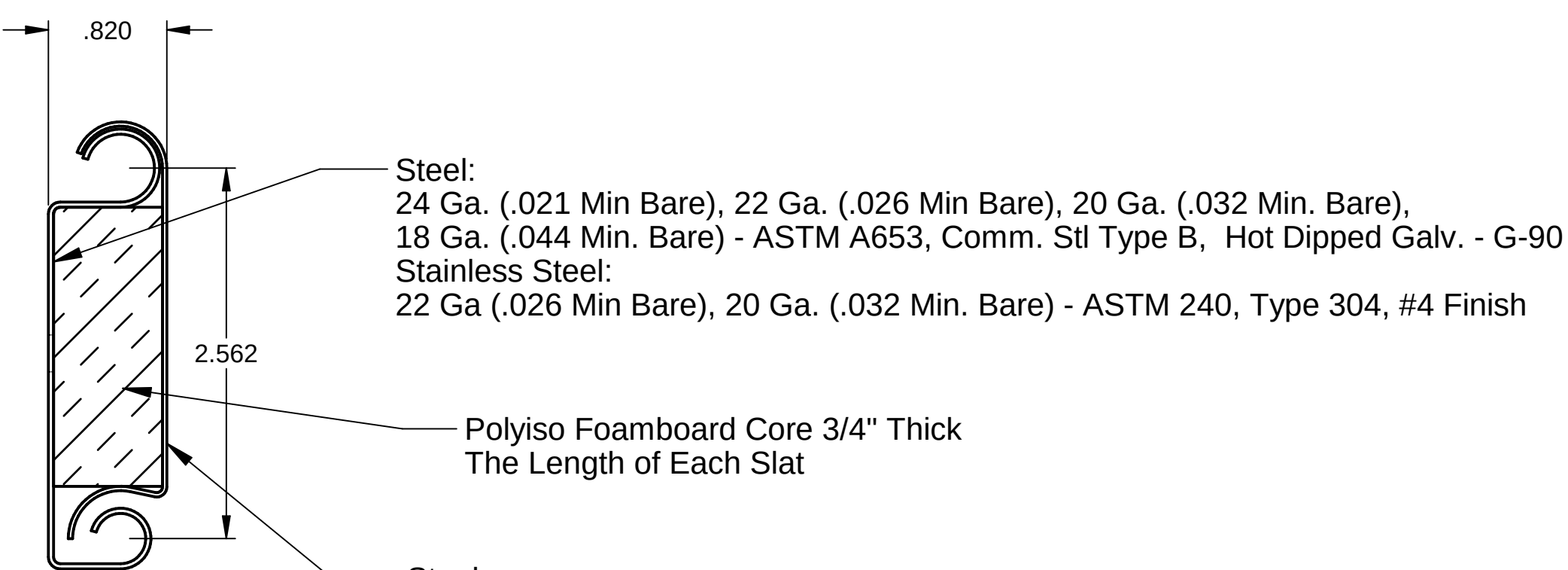
D2 General Specifications

- 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.



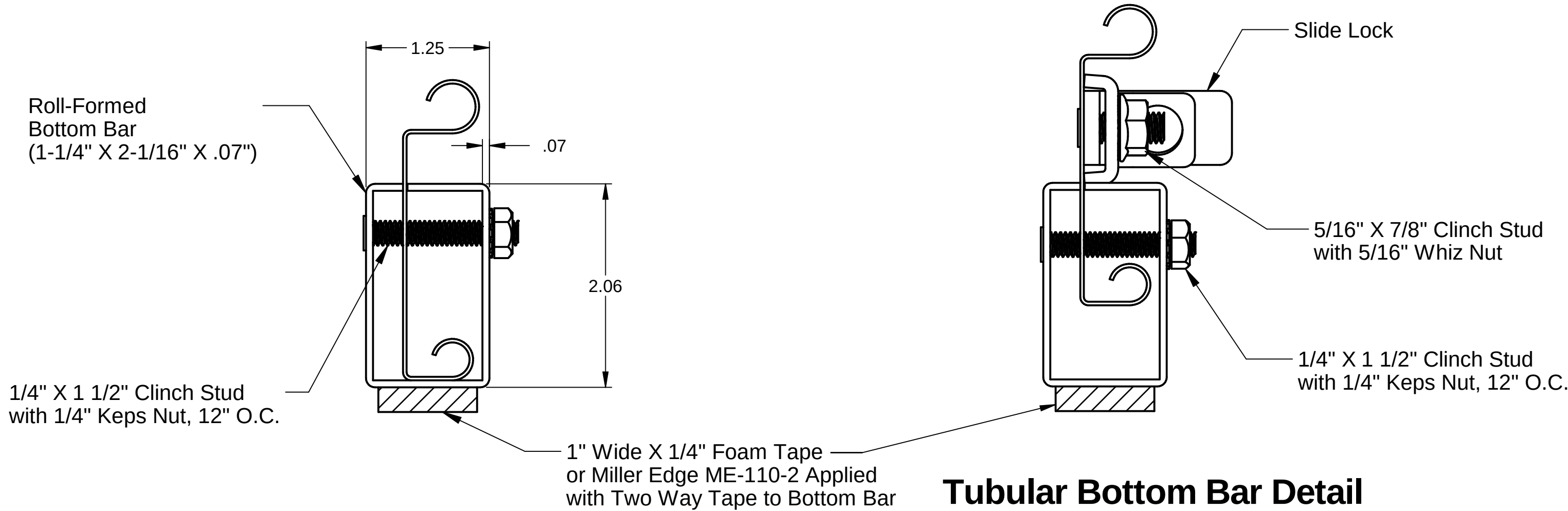
Flat Slat
" FF "/"UF"

("UF" Only available without windlocks)



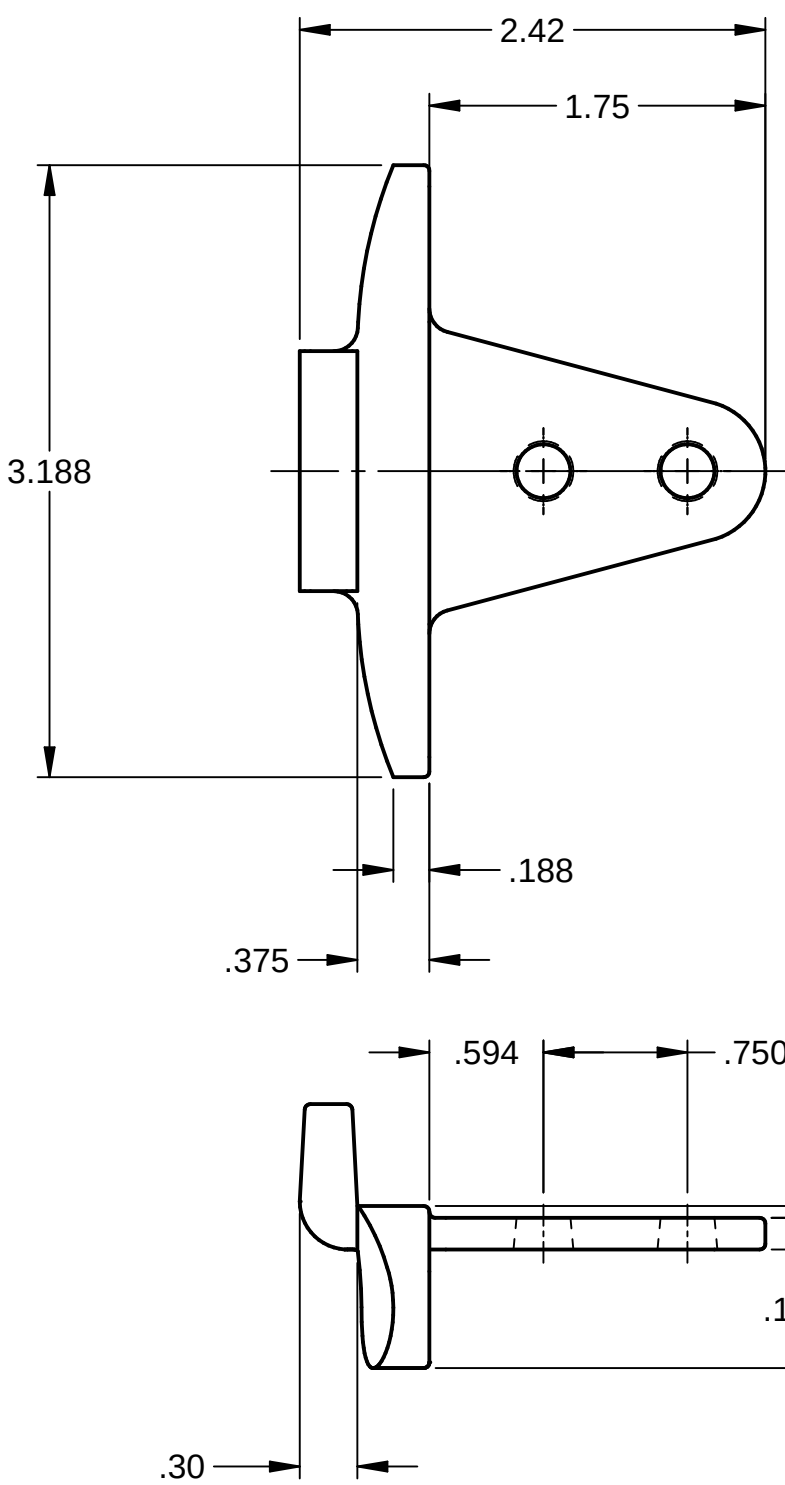
Insulated Flat Slat
" IF "

Flat Slat and Insulated Flat Slat Profiles

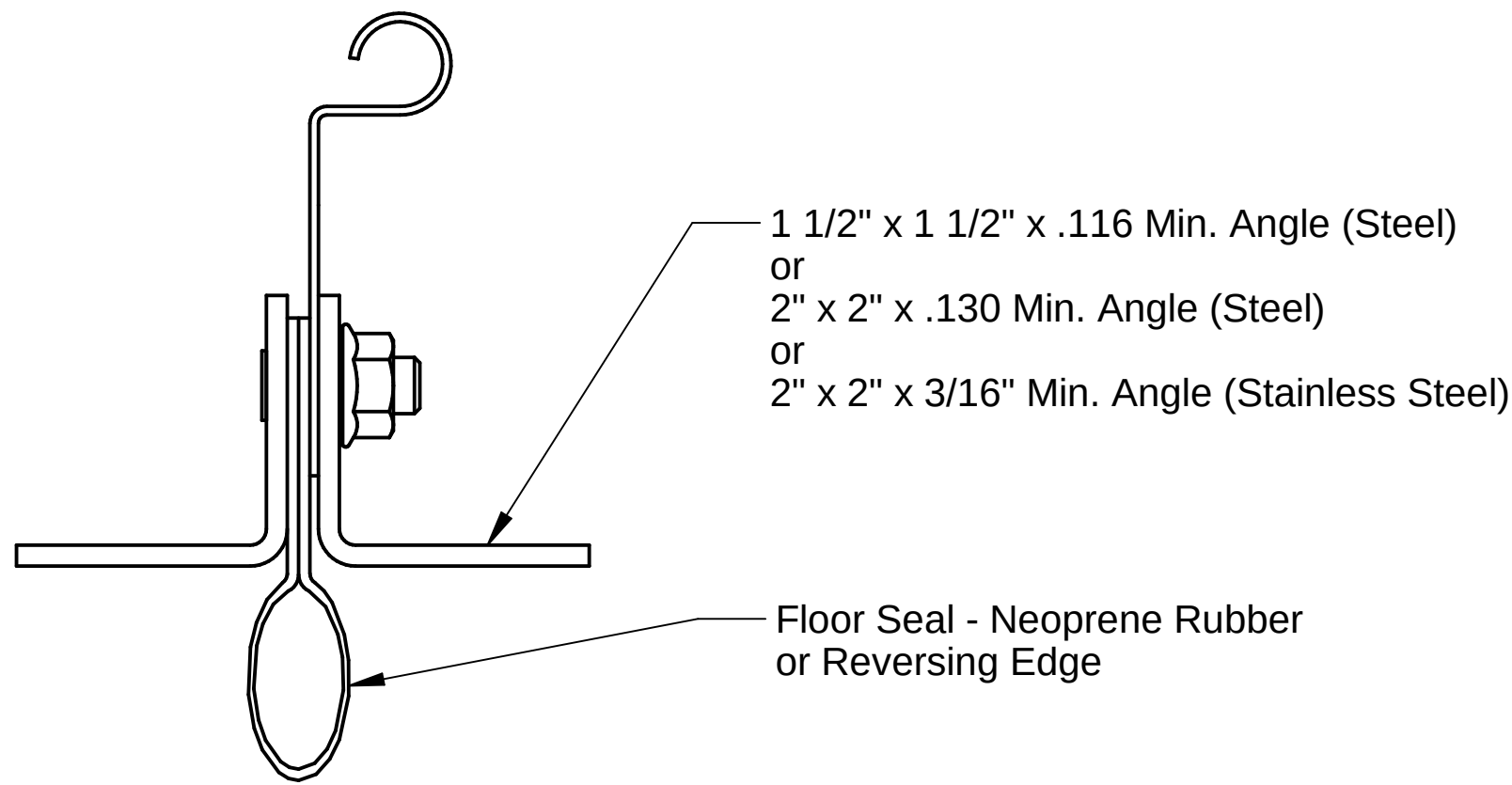
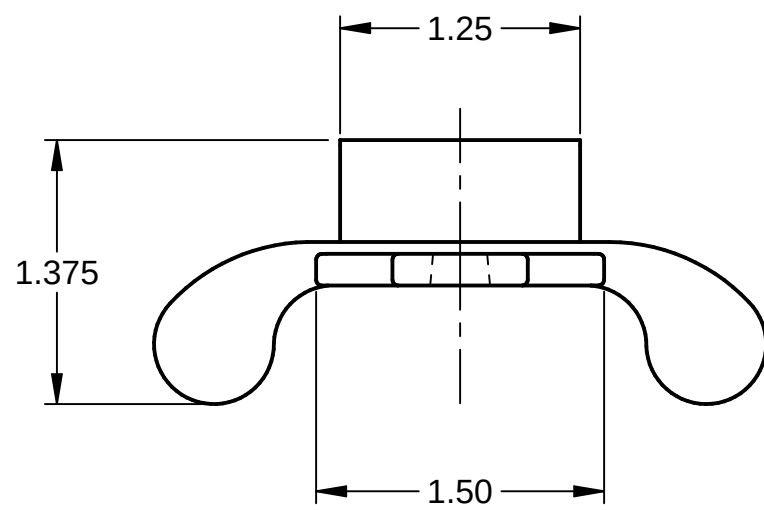
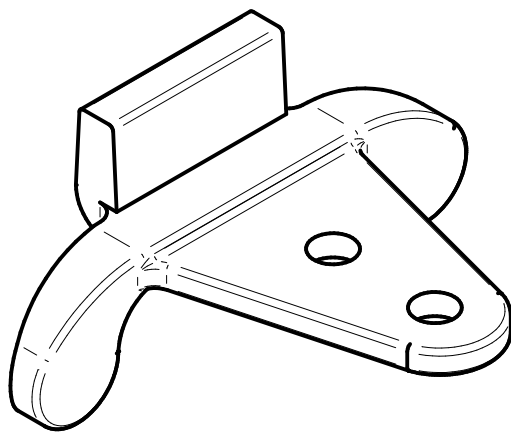


Tubular Bottom Bar Detail
w/Interior Slide Bolt

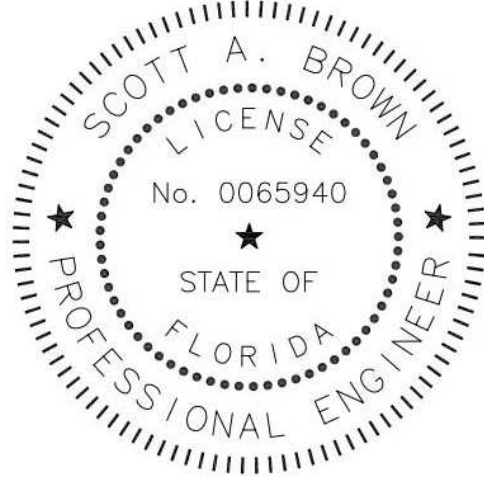
(Available up to 8'-0" opening width)



Malleable Cast Iron Endlock/Windlock



Bottom Bar Standard Assembly



Scott A. Brown, P.E. Lic. No. 65940
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FBPE CA Lic. No. 31544
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CHECKED BY: J. Bonnell
DATE: 09/04/14
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1101 EAST RIVER ROAD
DIXON, IL. 61021

TITLE: Specifications, Windload Doors
For Florida Approvals

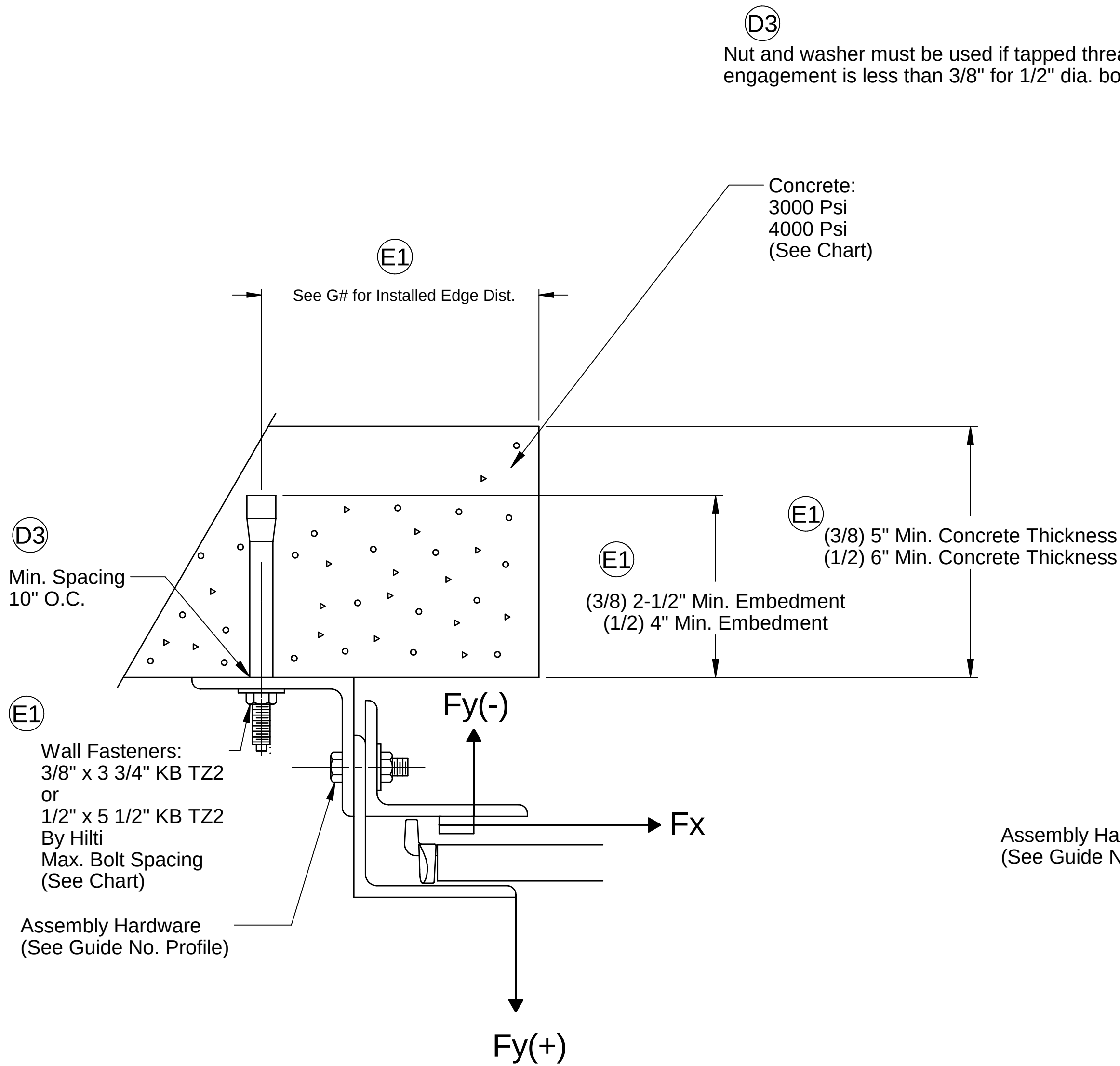
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SHEET
2

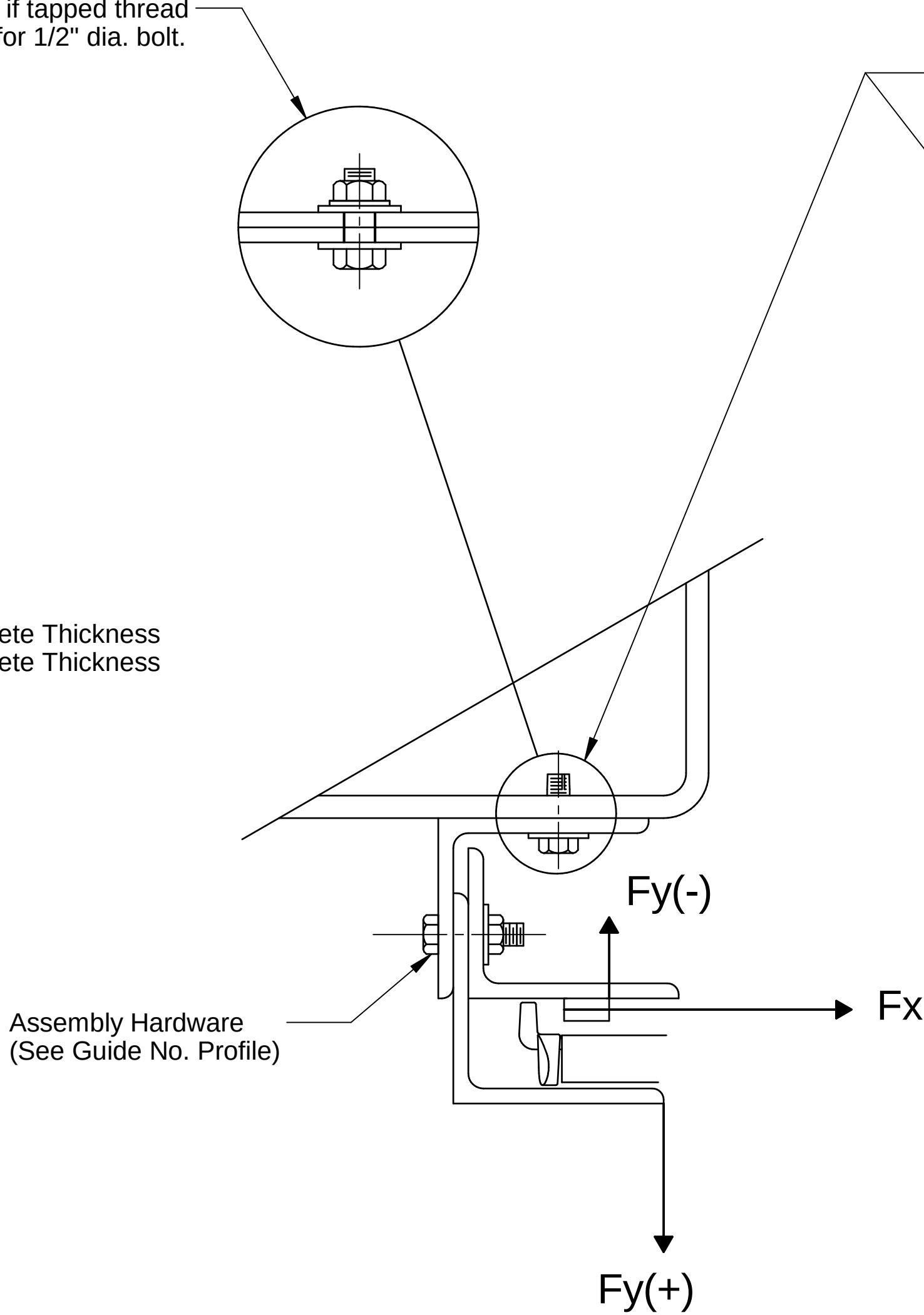
REV
E

Notes:

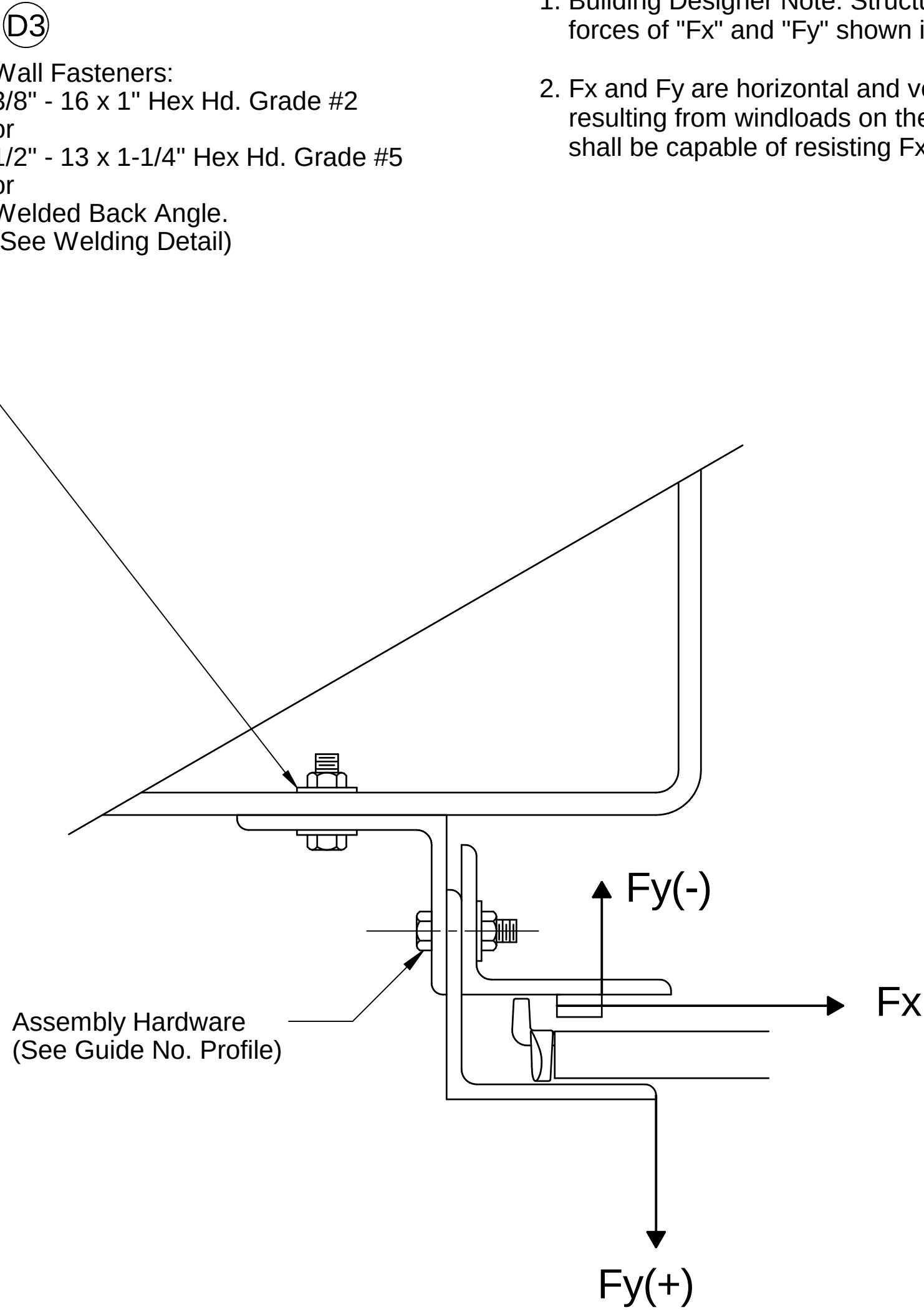
1. Building Designer Note: Structure must be designed to support the forces of "Fx" and "Fy" shown in chart
2. Fx and Fy are horizontal and vertical components of the reaction, resulting from windloads on the rolling steel door. The existing structure shall be capable of resisting Fx and Fy forces shown.



Masonry Jamb - " Z " Mtd.

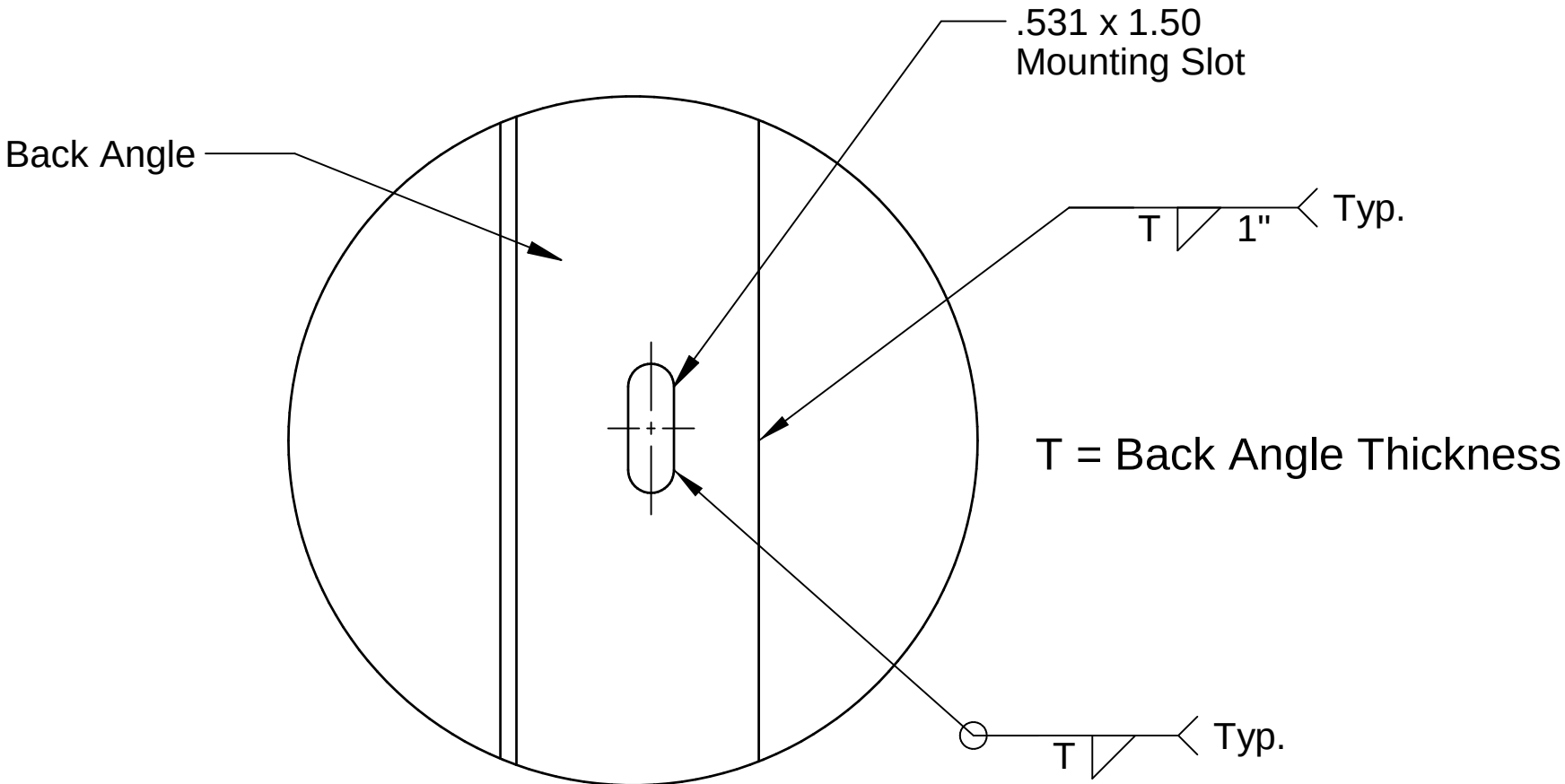


Steel Jamb - " E " Mtd.



Steel Jamb - " Z " Mtd.

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



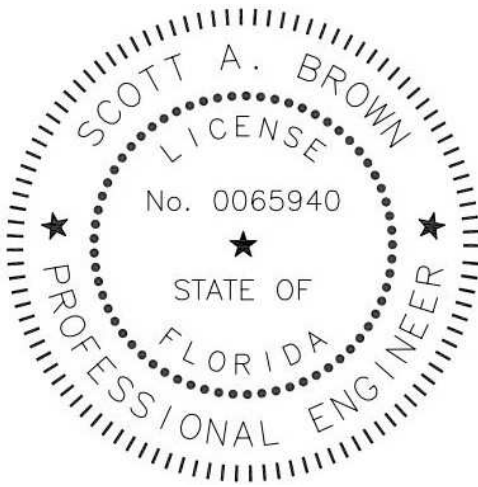
Welding Detail

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

SCALE: None
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DIXON, IL. 61021



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Structural Adequacy for Wind Load

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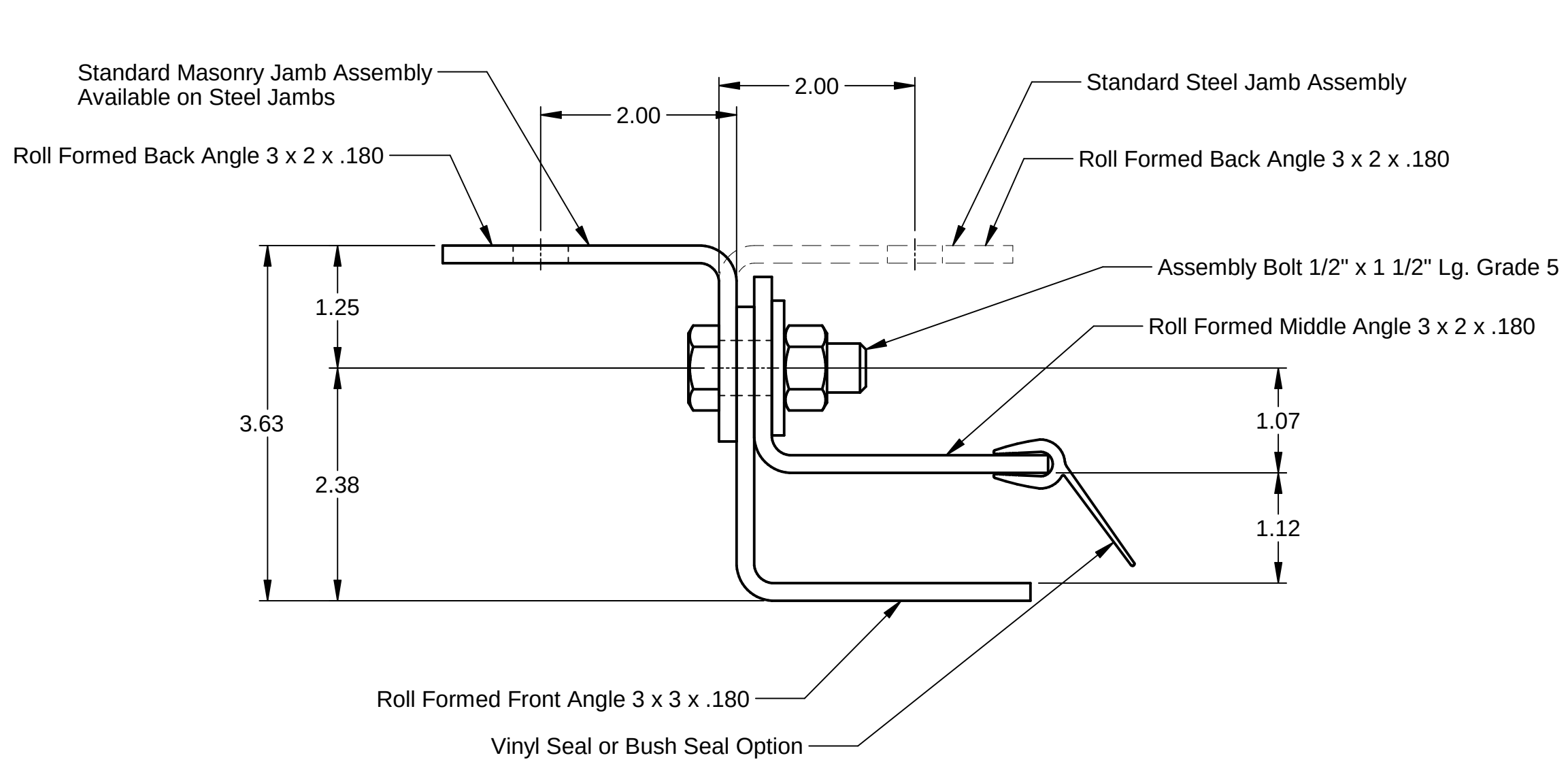
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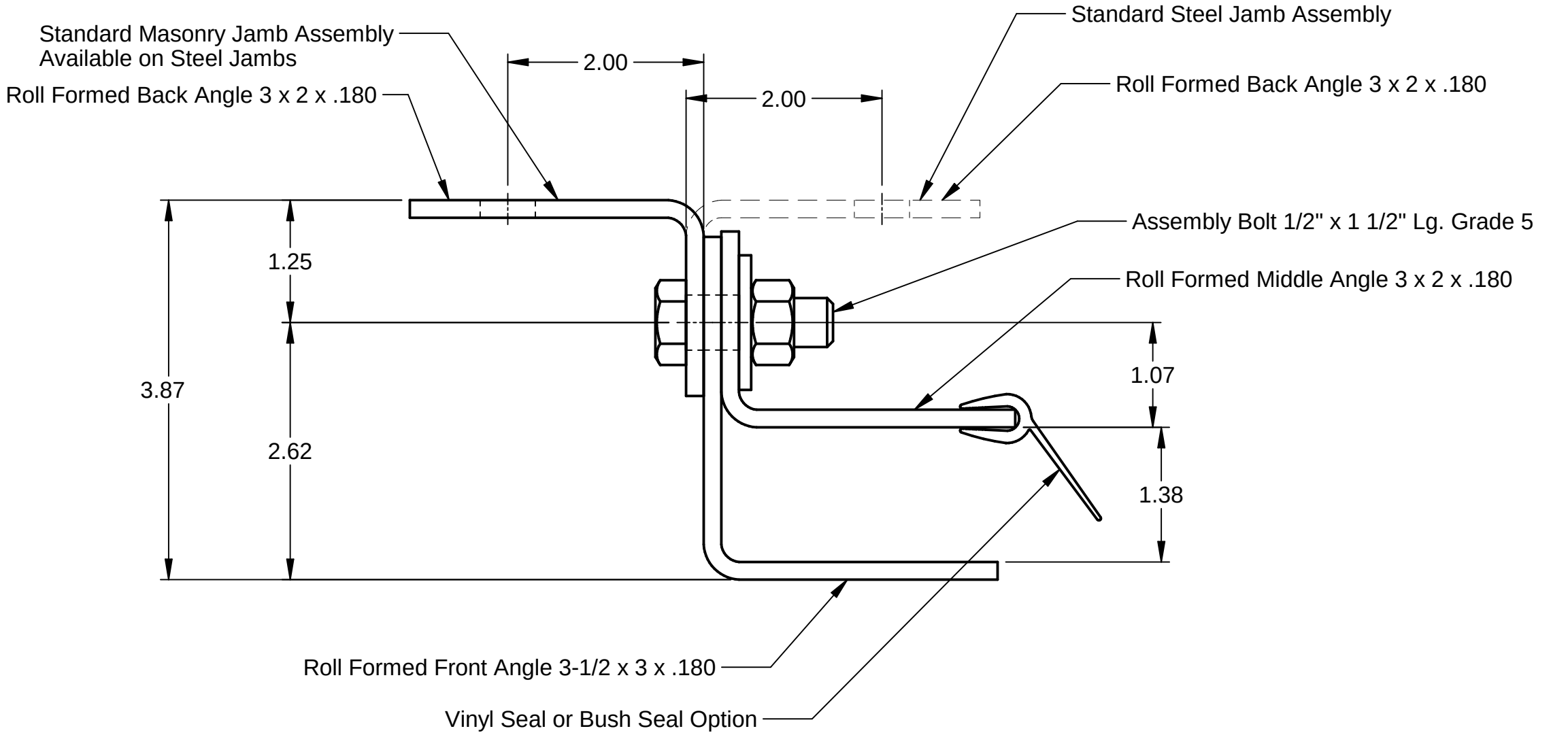
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SHEET
3

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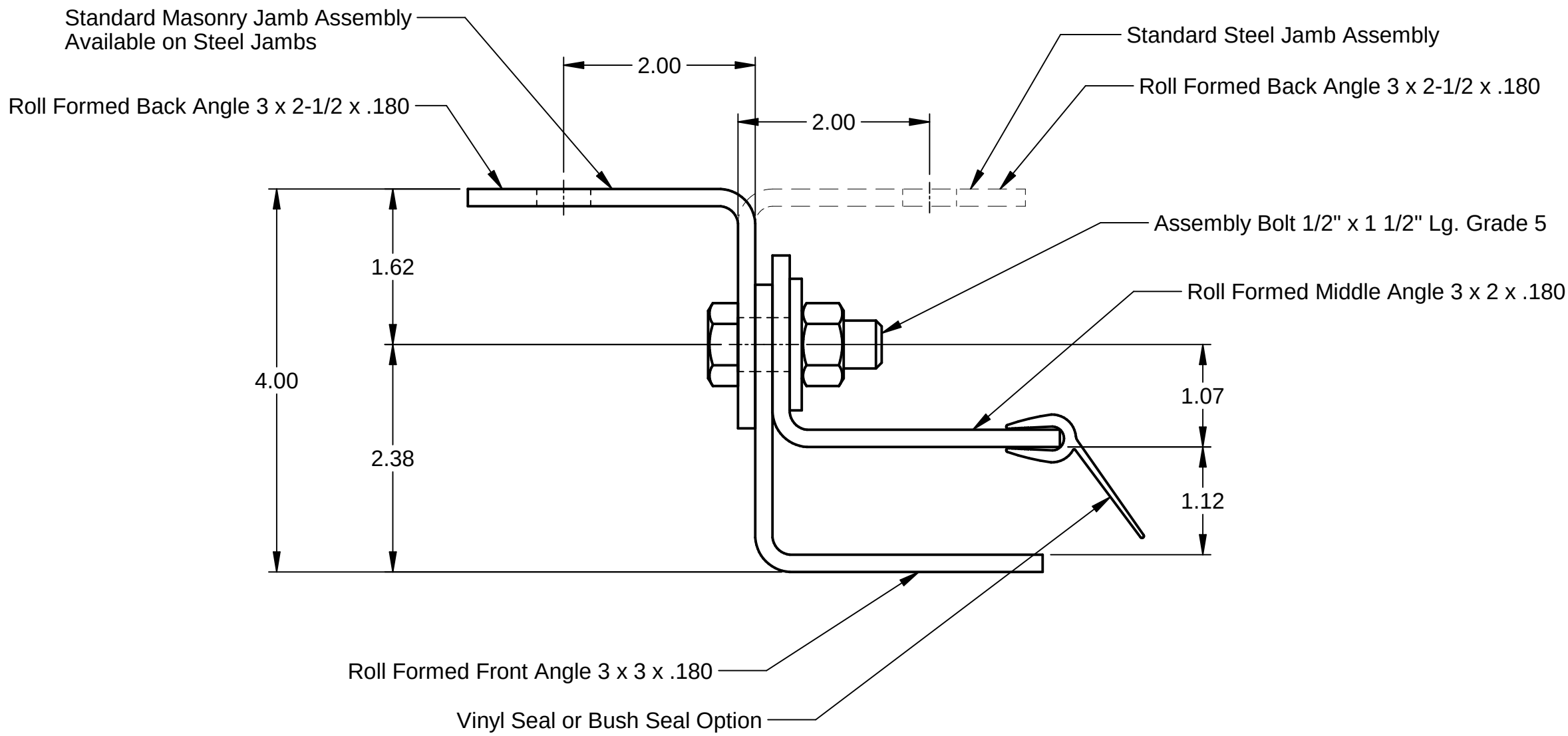


Guide Ass'y #89

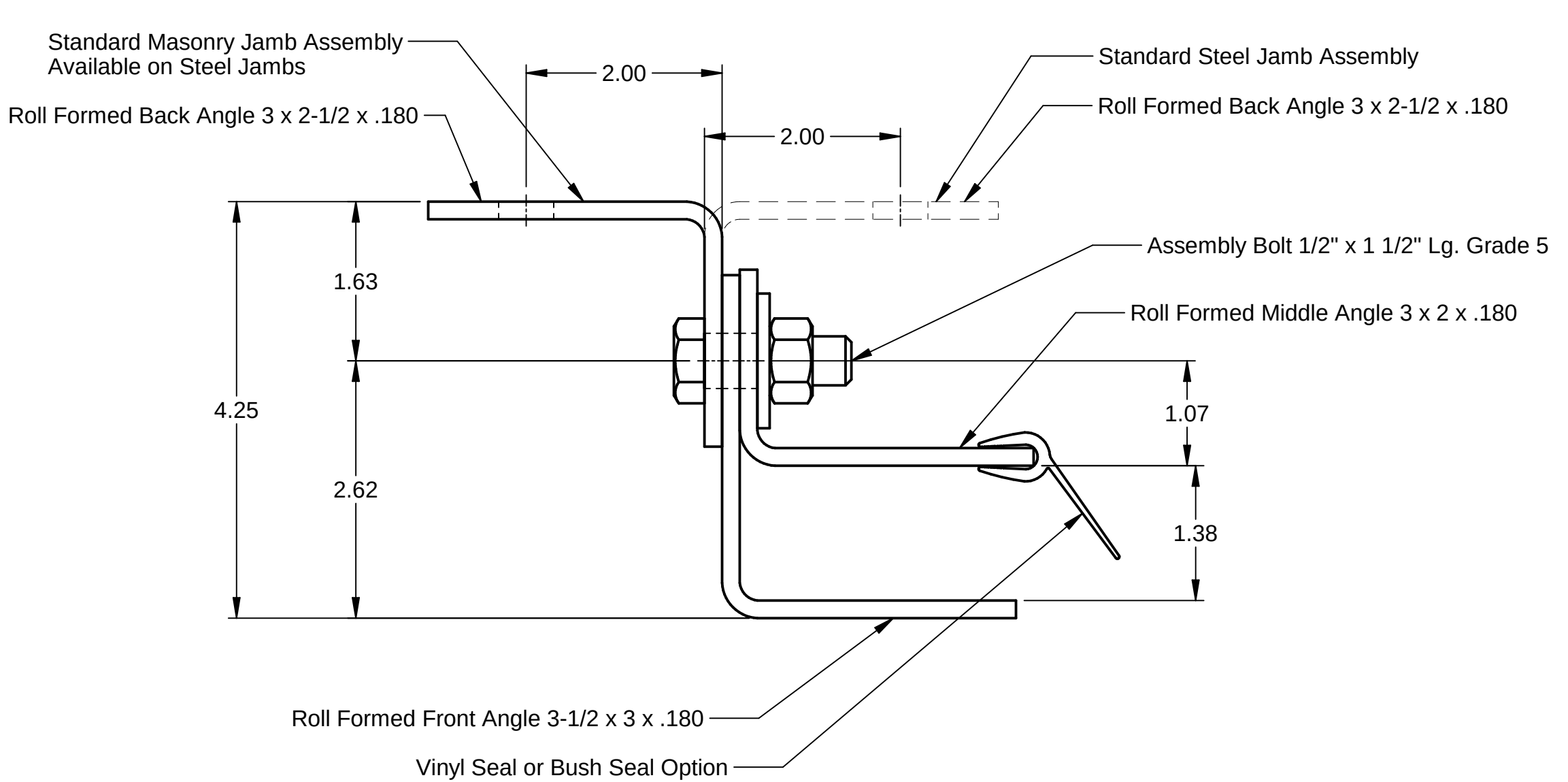


Guide Ass'y #92

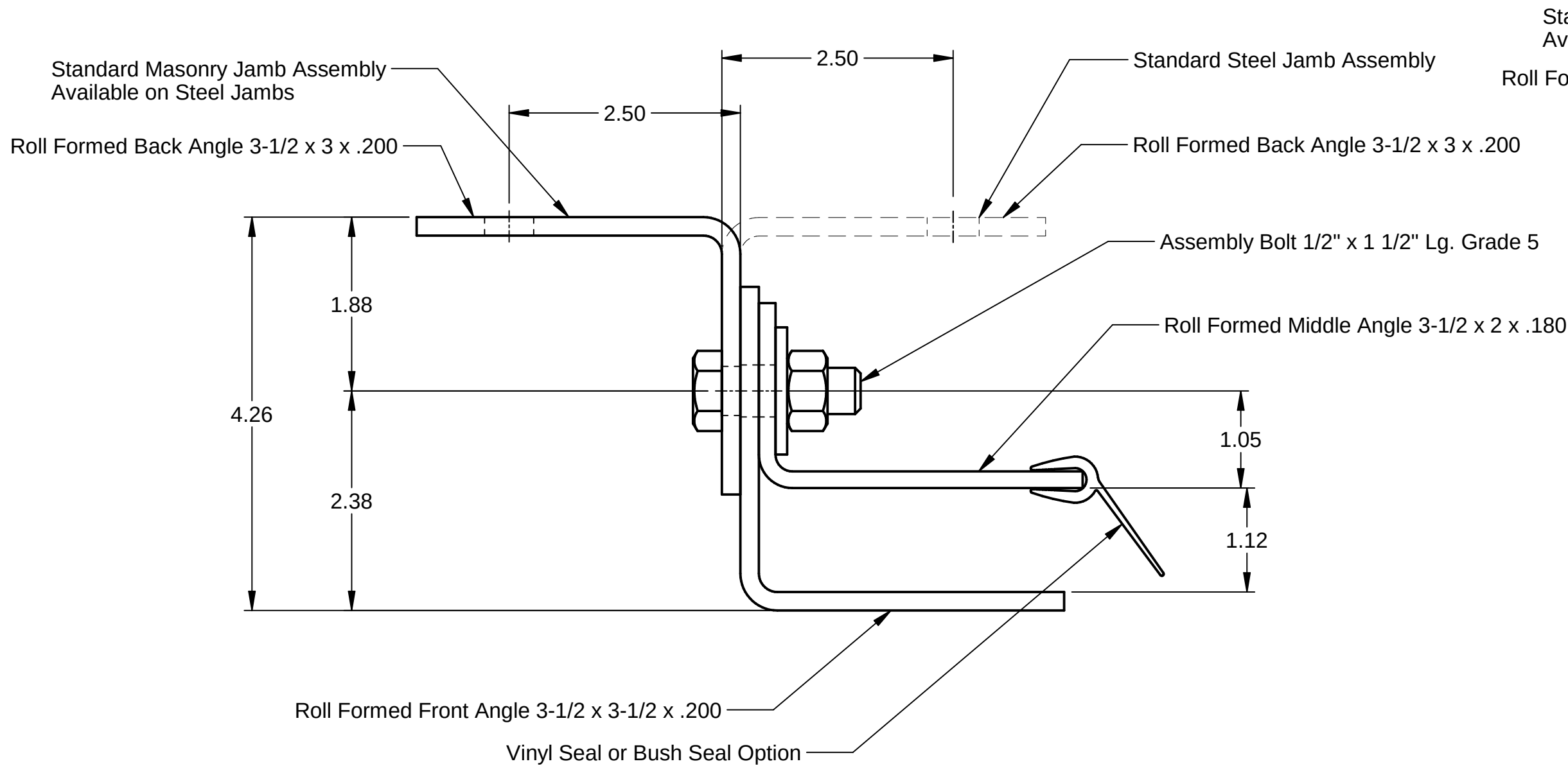
G#	Installed Edge Dist.	Anchor Size	Embedment
89	5.437	3/8"	2.50"
90	6.450		
91	6.450		
92	5.437		
93	5.437		
94	6.450		



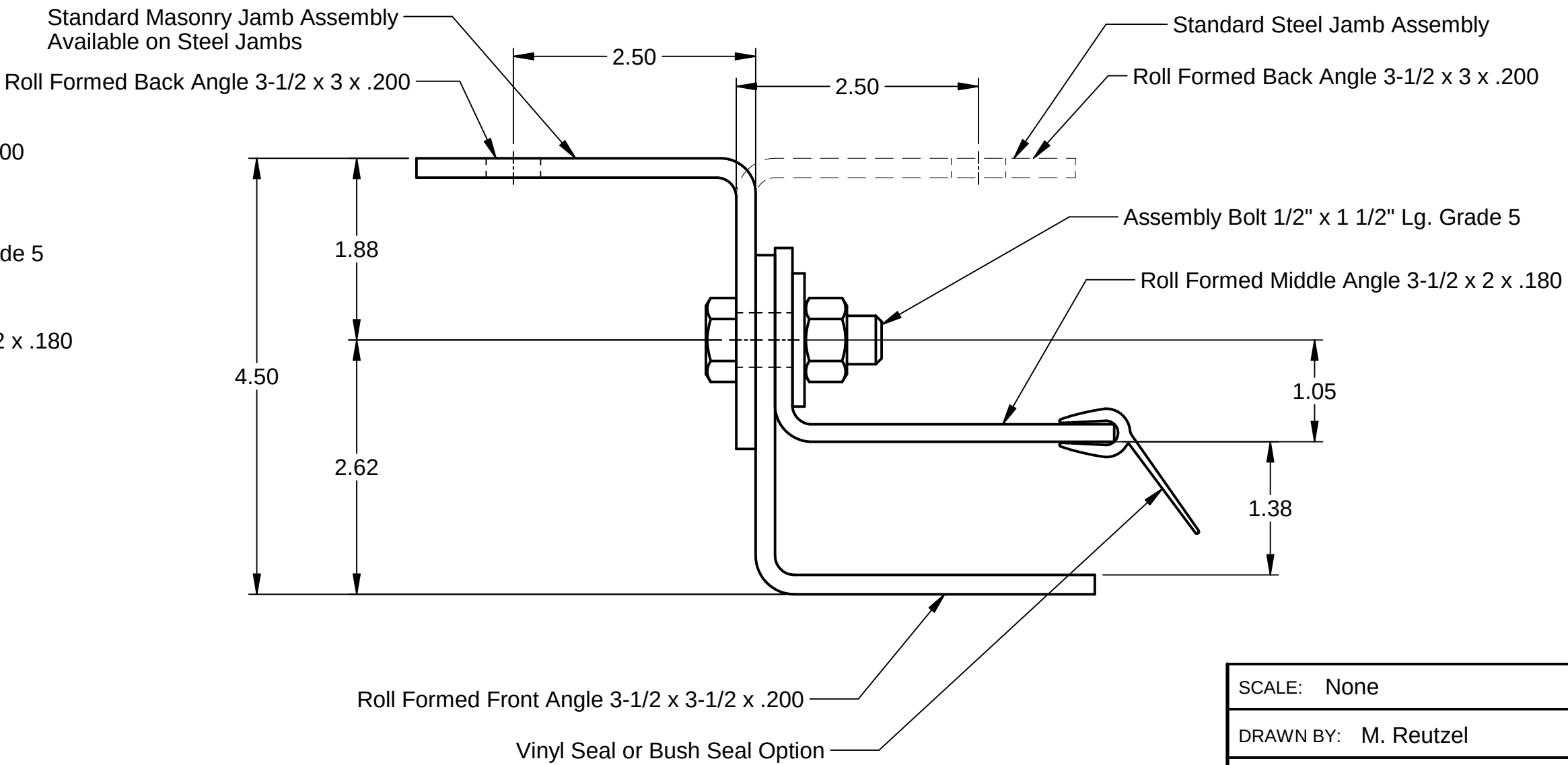
Guide Ass'y #90



Guide Ass'y #93



Guide Ass'y #91



Guide Ass'y #94

SCALE: None
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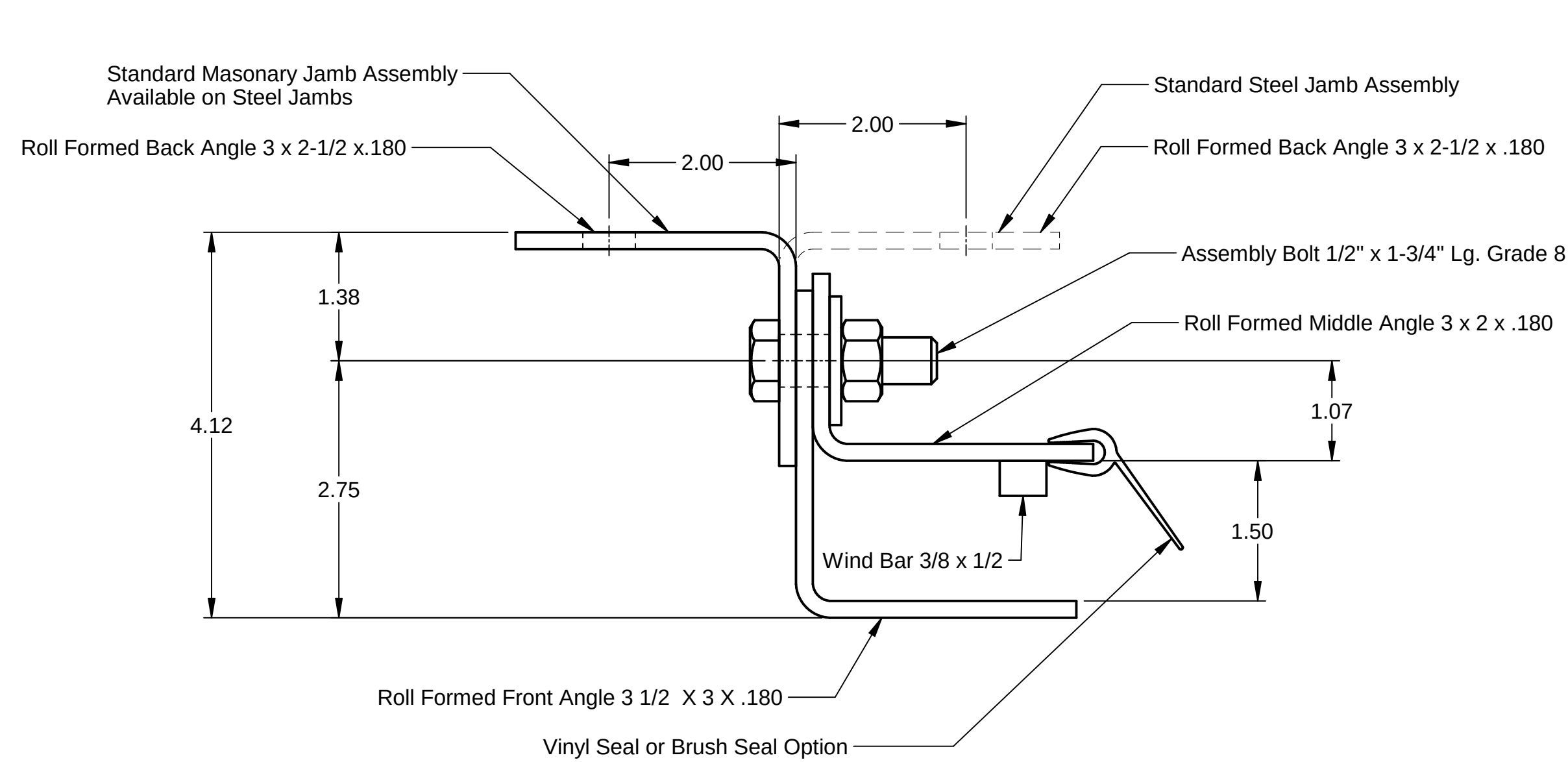
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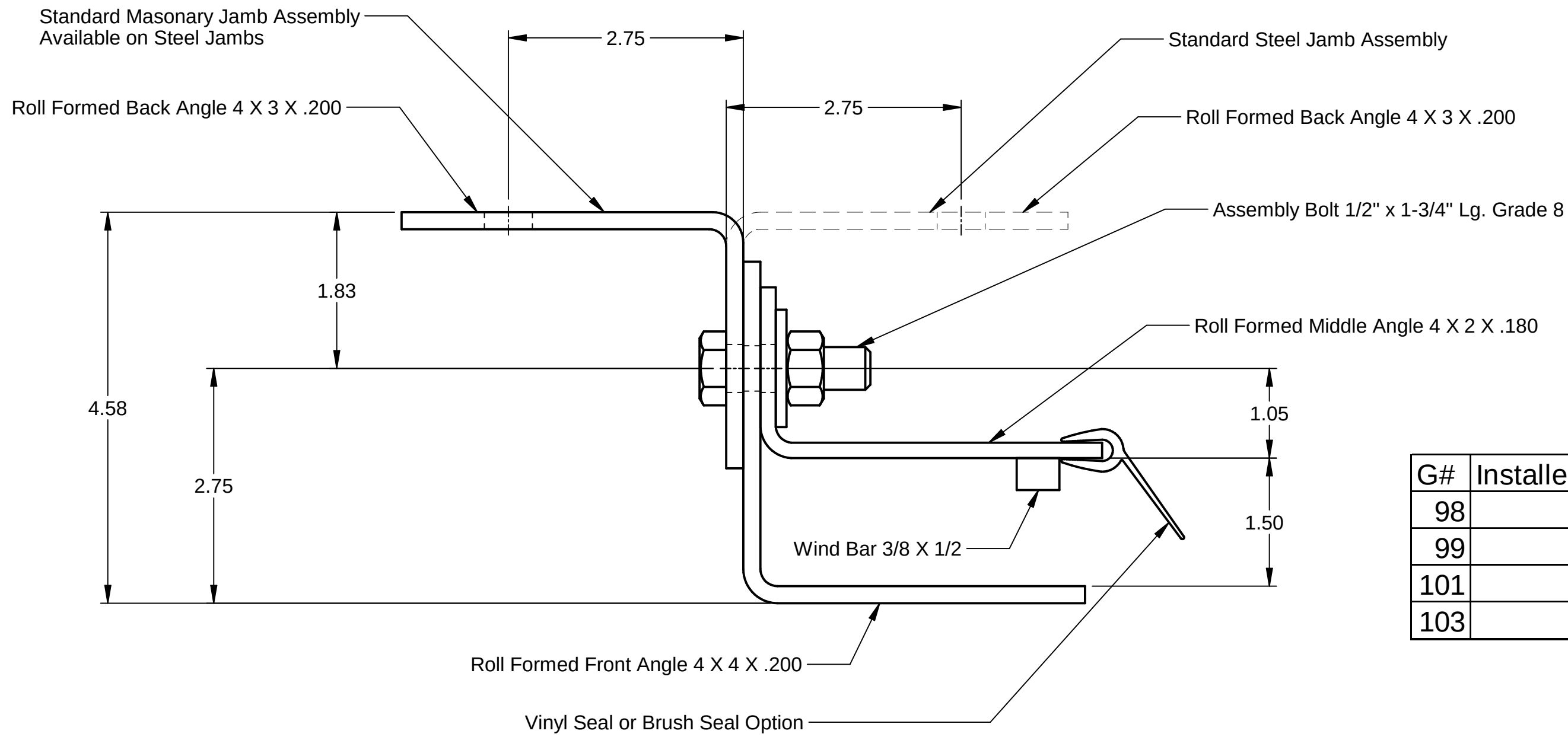
NO. P-2184

SHEET
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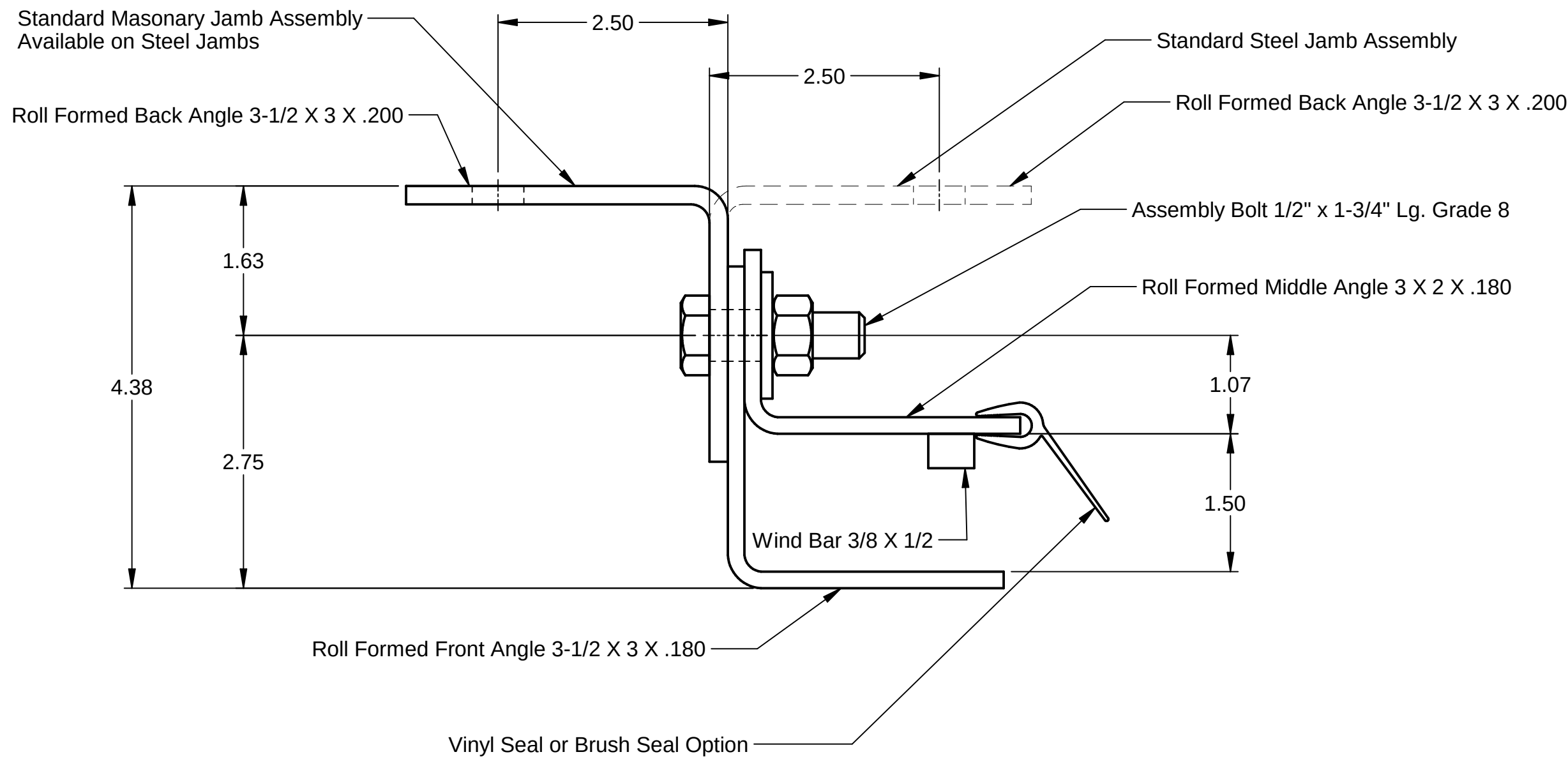


D4 Guide Ass'y #98

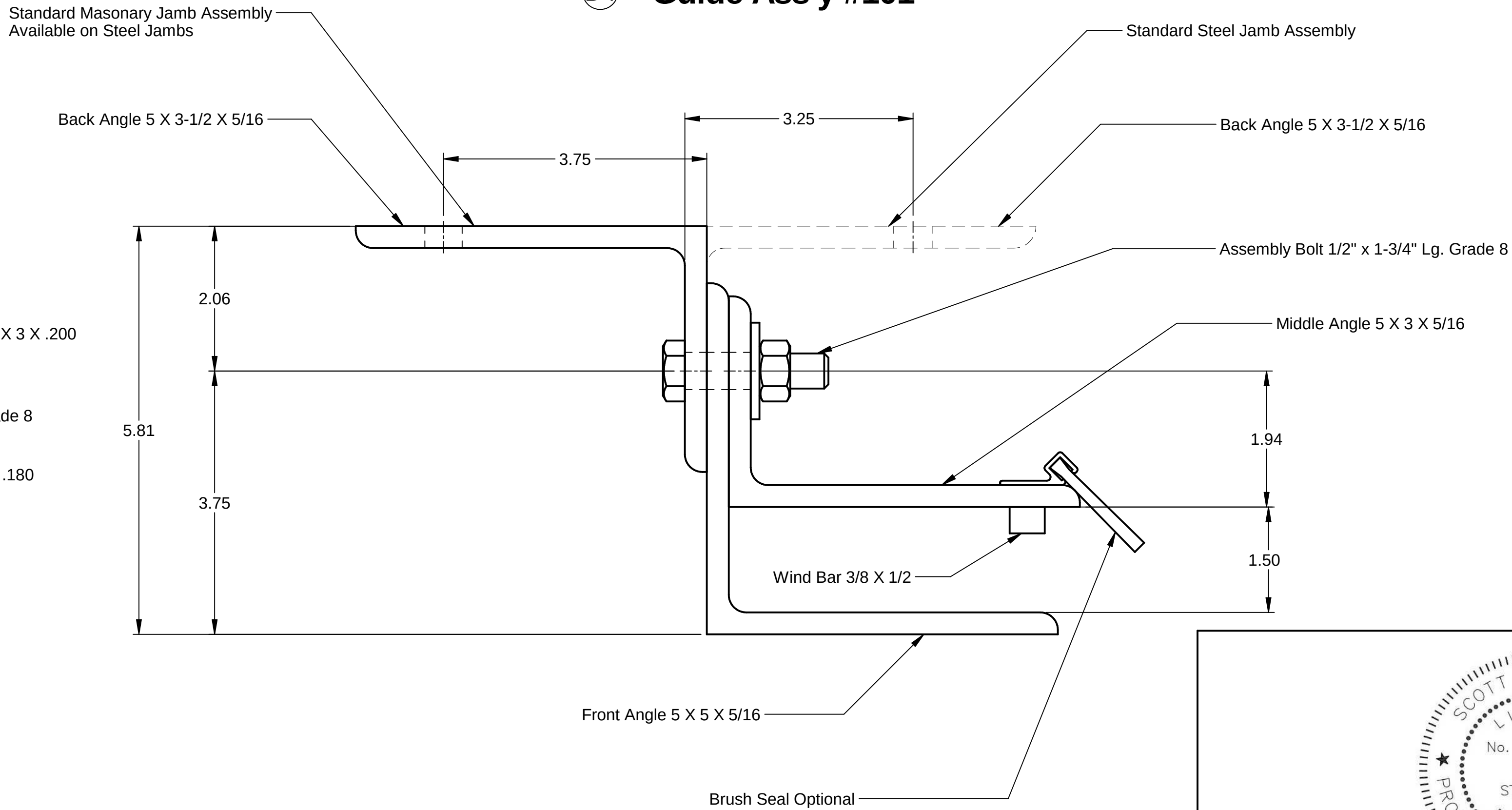


D4 Guide Ass'y #101

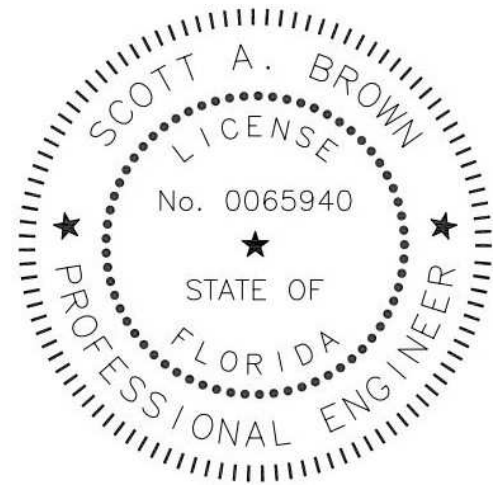
G#	Installed Edge Dist.	Anchor Size	Embedment
98	5.437	1/2"	4.00"
99	5.937		
101	7.200		
103	9.313		



D4 Guide Ass'y #99



D4 Guide Ass'y #103



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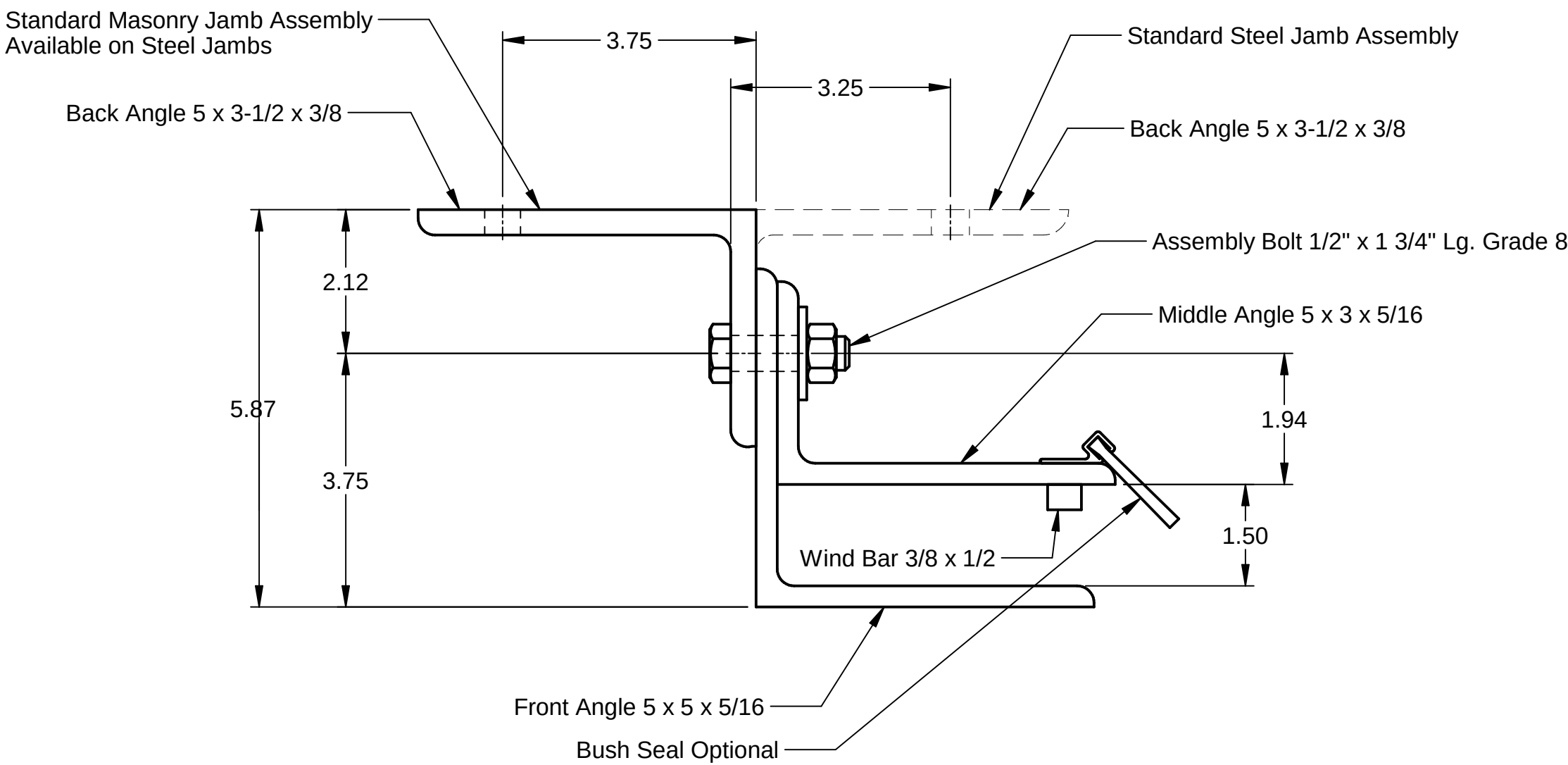
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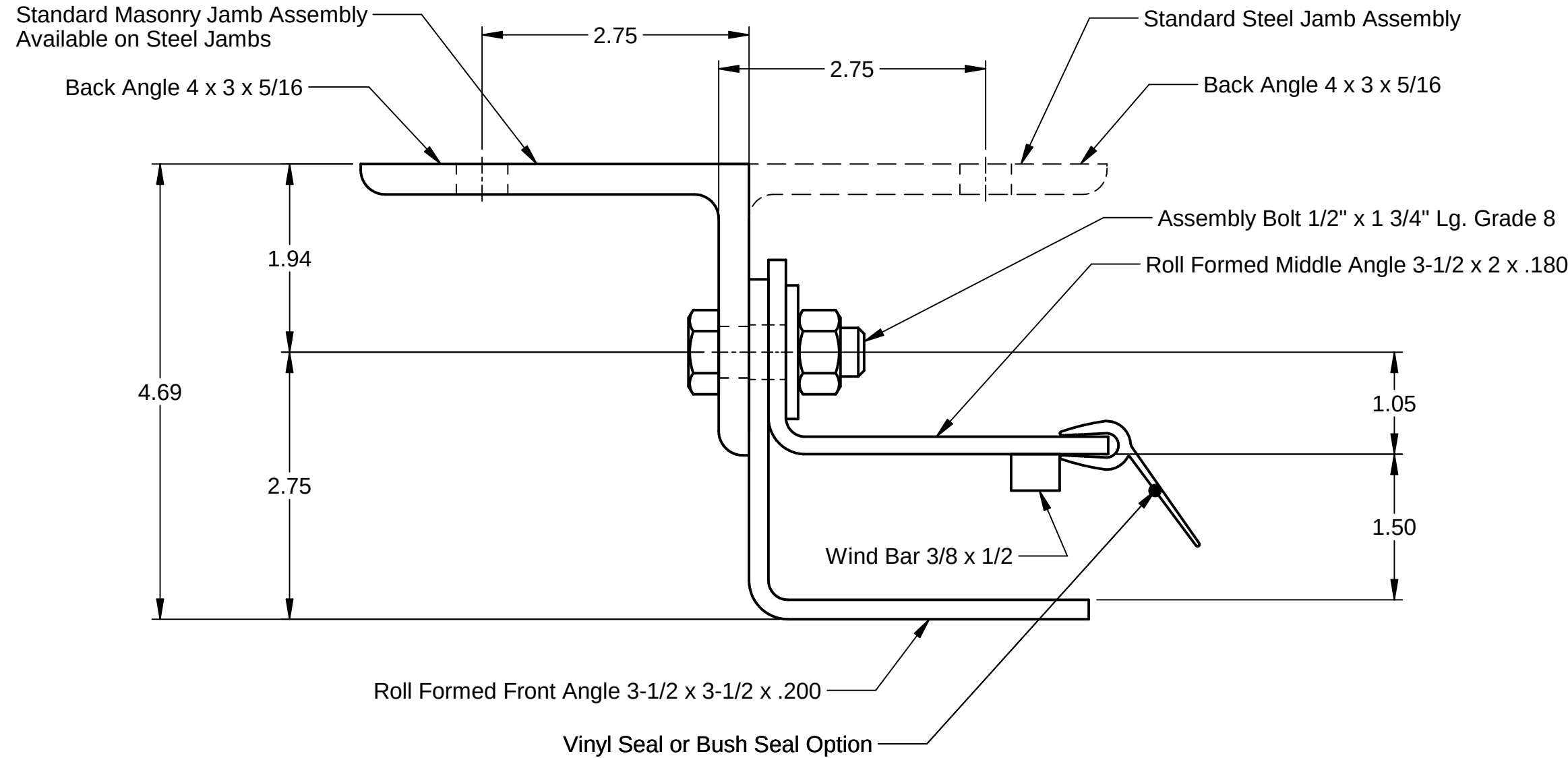


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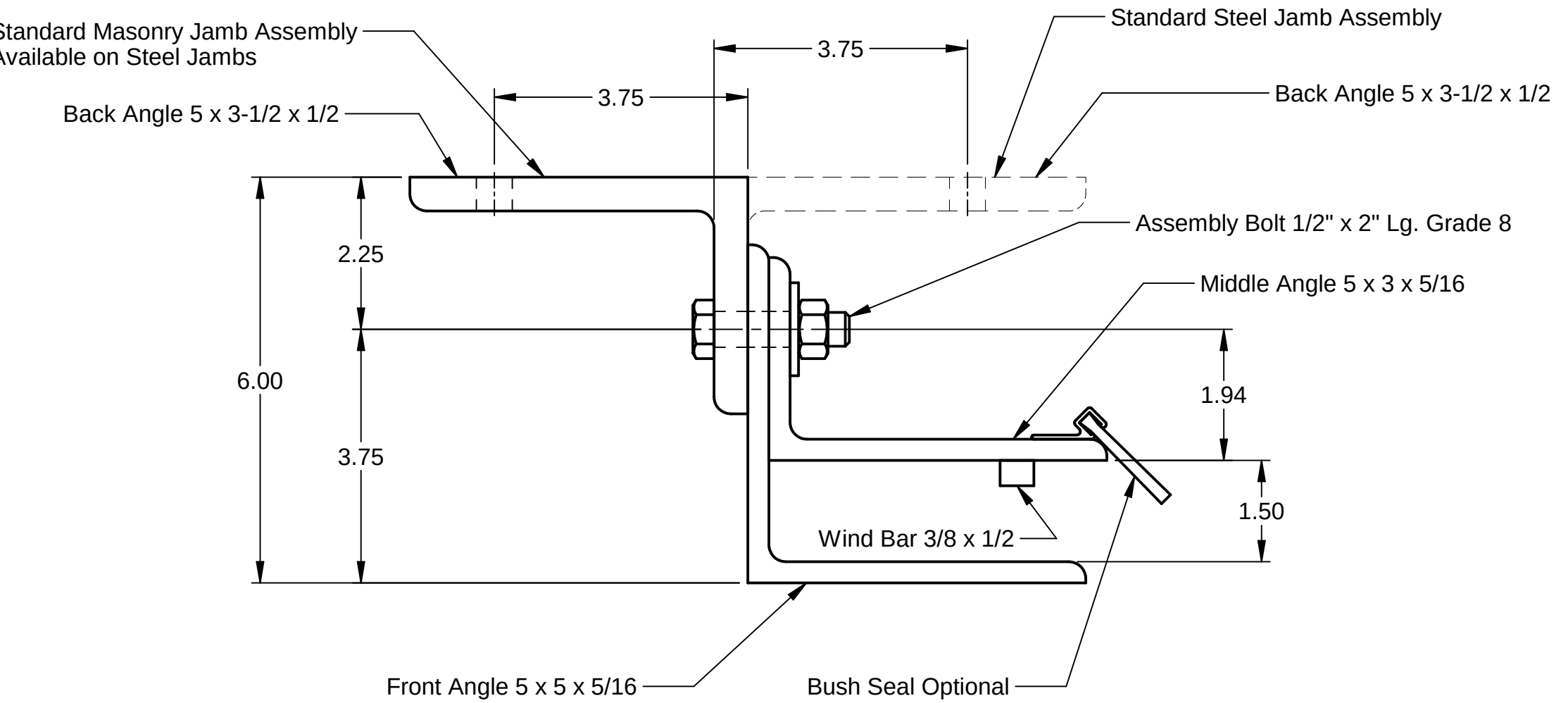
NO. P-2184	SHEET 5	REV E
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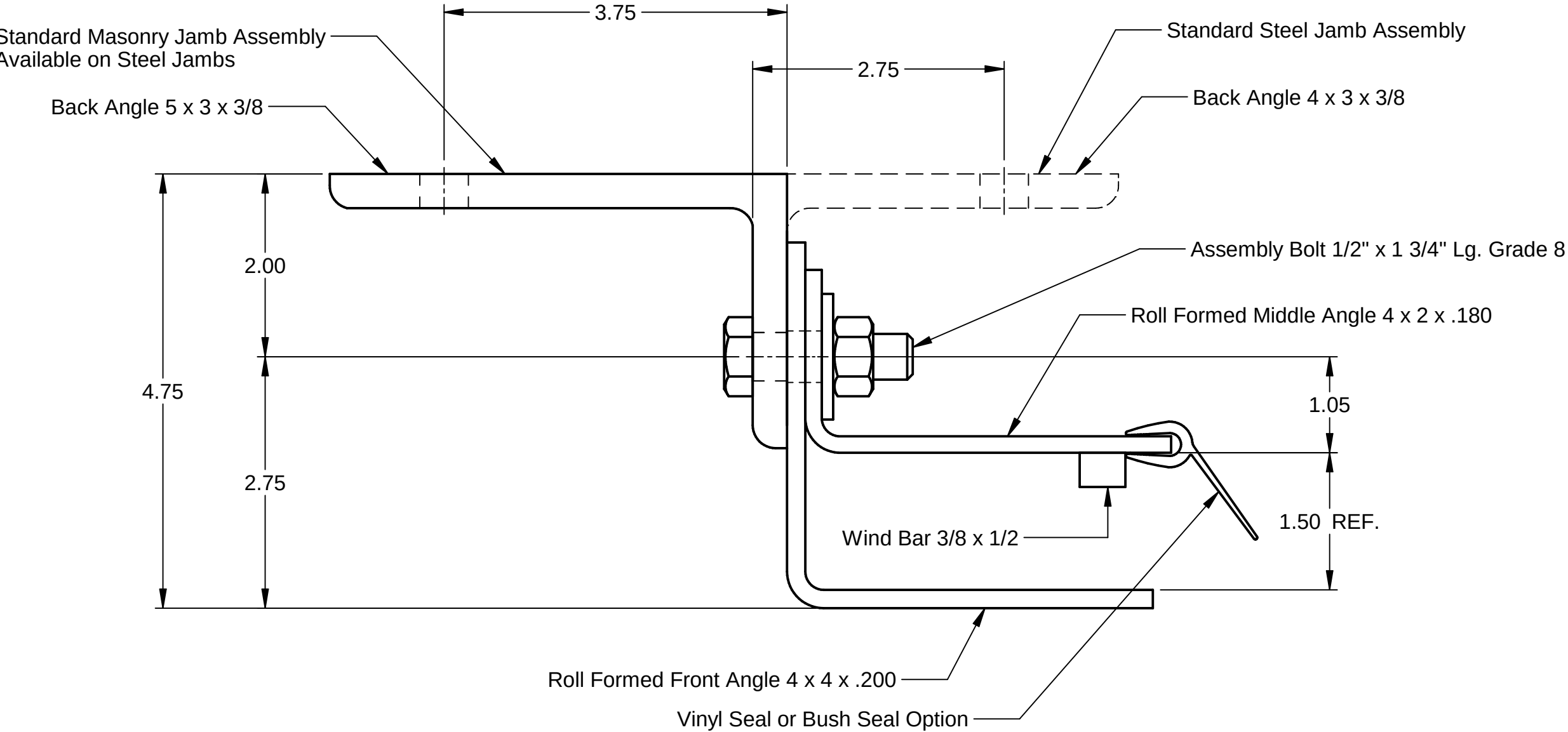
Guide Ass'y #104



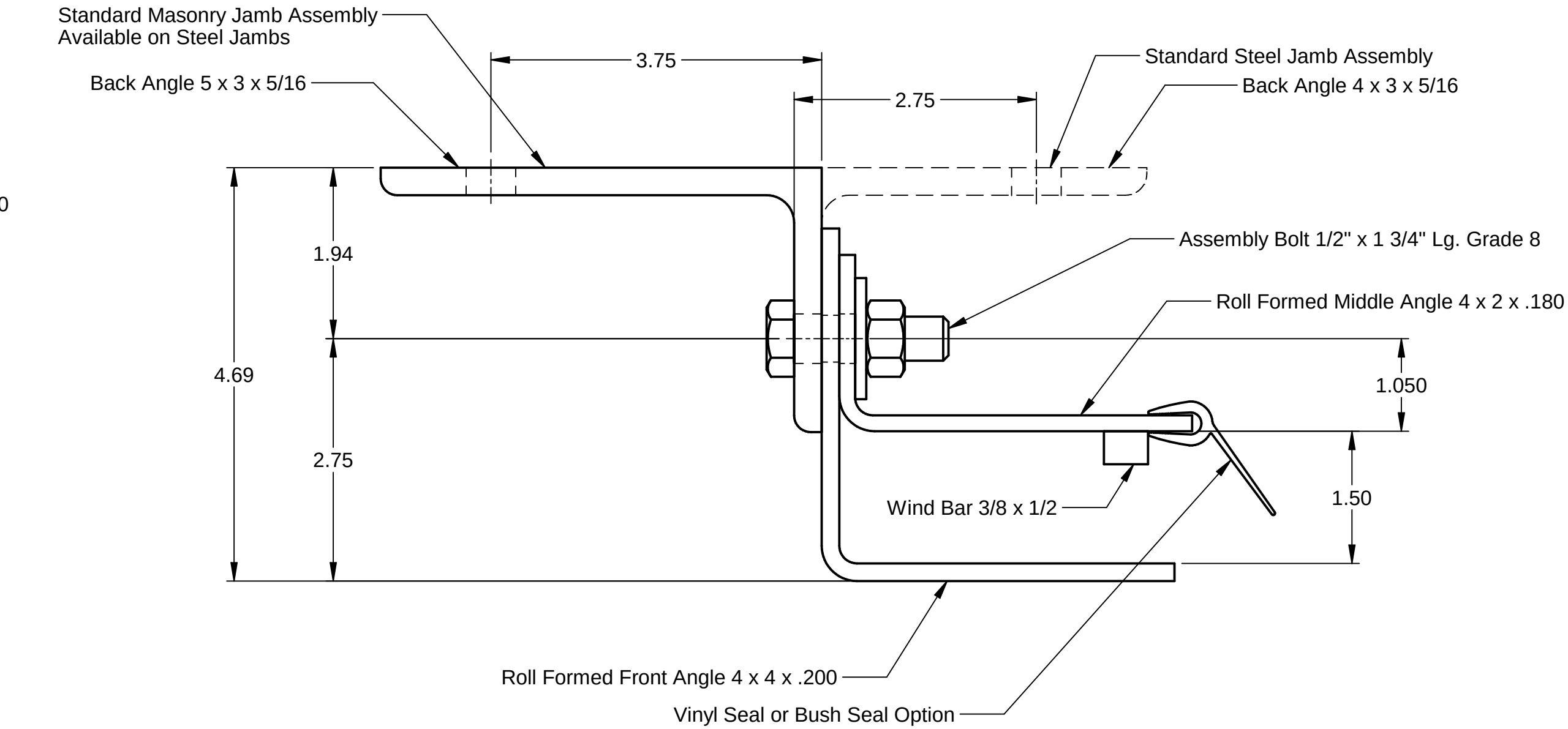
Guide Ass'y #105



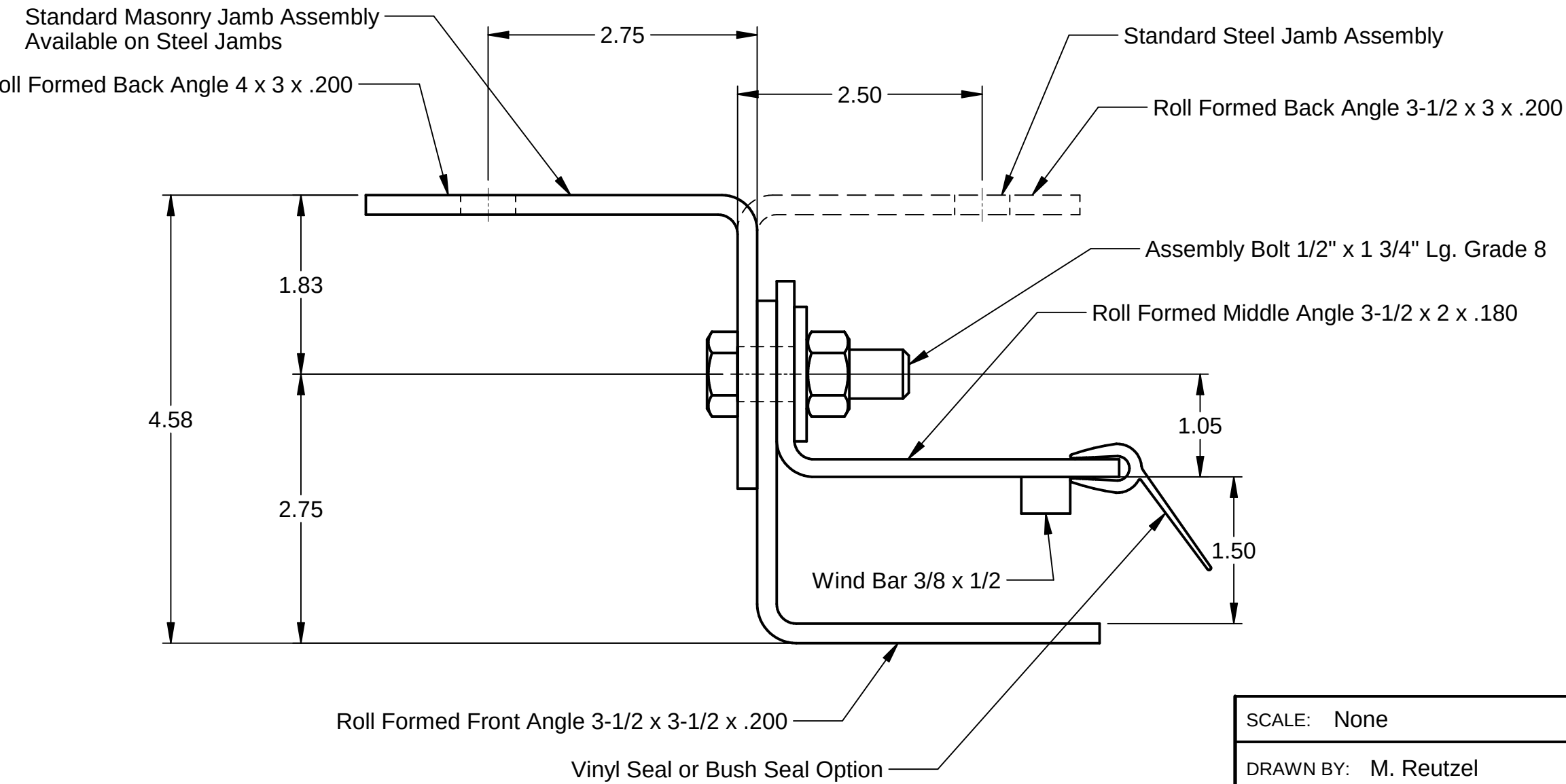
Guide Ass'y #106



Guide Ass'y #107

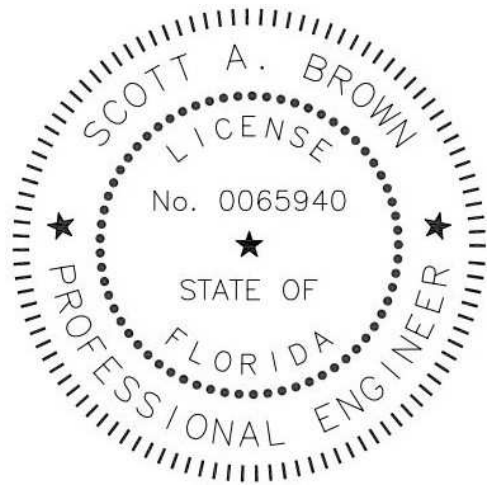


Guide Ass'y #110



Guide Ass'y #111

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



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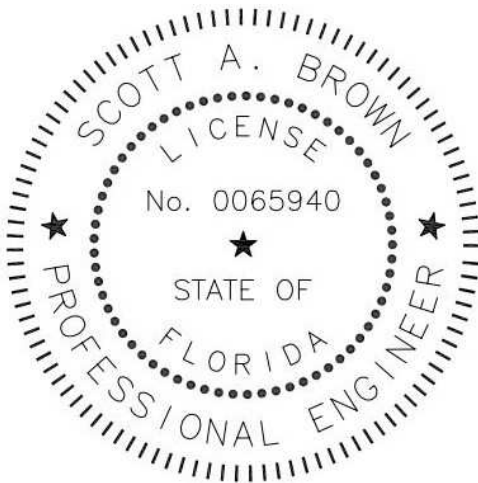
TITLE: Specifications, Windload Doors For Florida Approvals

NO. P-2184	SHEET 6	REV E
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DuraCoil - Insulated Flat Slat 24 Ga.

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

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Masonry Jambs 3000 PSI	Bolt Spacing Masonry Jambs 4000 PSI	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"	N/A	165
	18 - 22		93	D.R. - 2.25						19"	22"		
	24 - 30		94	D.R. - 2.75						19"	22"		
	12 - 16	20'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24"	24"	622	200
	18 - 24		99	D.R. - 2.75						24"	24"		
	26 - 30		111	D.R. - 3.00						24"	24"		
25 PSF	12 - 16	14'-9"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	20"	23"	N/A	184
	18 - 22		93	D.R. - 2.25						17"	19"		
	24 - 30		94	D.R. - 2.75						20"	22"		
	12 - 16	20'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	905	250
	18 - 24		99	D.R. - 2.75						23"	24"		
	26 - 30		111	D.R. - 3.00						24"	24"		
30 PSF	12 - 16	13'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	18"	21"	N/A	203
	18 - 22		93	D.R. - 2.25						15"	18"		
	24 - 30		94	D.R. - 2.75						18"	19"		
	12 - 16	19'-1"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	21"	1022	286
	18 - 24		99	D.R. - 2.75						24"	24"		
	26 - 30		111	D.R. - 3.00						24"	24"		
35 PSF	12 - 16	12'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	17"	19"	N/A	219
	18 - 22		93	D.R. - 2.25						14"	16"		
	24 - 30		94	D.R. - 2.75						18"	20"		
	12 - 16	17'-8"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	991	309
	18 - 24		99	D.R. - 2.75						24"	24"		
	26 - 30		111	D.R. - 3.00						19"	20"		
40 PSF	12 - 16	11'-8"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	15"	18"	N/A	233
	18 - 22		93	D.R. - 2.25						13"	15"		
	24 - 30		94	D.R. - 2.75						18"	20"		
	12 - 16	16'-7"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	22"	968	332
	18 - 24		99	D.R. - 2.75						24"	24"		
	26 - 30		111	D.R. - 3.00						15"	17"		
45 PSF	12 - 16	11'	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	15"	17"	N/A	248
	18 - 22		93	D.R. - 2.25						12"	14"		
	24 - 30		94	D.R. - 2.75						18"	20"		
	12 - 16	15'-9"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	22"	958	354
	18 - 24		99	D.R. - 2.75						24"	24"		
	26 - 30		111	D.R. - 3.00						12"	14"		
50 PSF	12 - 16	10'-5"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	14"	16"	N/A	260
	18 - 22		93	D.R. - 2.25						12"	14"		
	24 - 30		94	D.R. - 2.75						19"	20"		
	12 - 16	15'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	23"	932	375
	18 - 24		99	D.R. - 2.75						24"	24"		
	26 - 30		111	D.R. - 3.00						19"	N/A		
55 PSF	12 - 16	9'-11"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13"	15"	N/A	273
	18 - 22		93	D.R. - 2.25						11"	13"		
	24 - 30		94	D.R. - 2.75						19"	21"		
	12 - 16	14'-4"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	22"	23"	896	394
	18 - 24		99	D.R. - 2.75						24"	24"		
	26 - 30		111	D.R. - 3.00						18"	N/A		
60 PSF	12 - 16	9'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13"	15"	N/A	285
	18 - 22		93	D.R. - 2.25						11"	12"		
	24 - 30		94	D.R. - 2.75						19"	21"		
	12 - 16	13'-10"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	22"	23"	888	415
	18 - 24		99	D.R. - 2.75						24"	24"		
	26 - 30		111	D.R. - 3.00						18"	N/A		
65 PSF	12 - 16	9'-2"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12"	14"	N/A	298
	18 - 22		93	D.R. - 2.25						10"	12"		
	24 - 30		94	D.R. - 2.75						19"	21"		
	12 - 16	13'-4"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	22"	24"	855	433
	18 - 24		99	D.R. - 2.75						23"	24"		
	26 - 30		111	D.R. - 3.00						18"	12"		
	18 - 30	16'-4"	105	D.R. - 3.00	1.000	2.125				15"	1382	531	
	18 - 30	20'	104	D.R. - 4.25	1.938	3.688				17"	N/A	1579	650



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TITLE: Specifications, Windload Doors
For Florida Approvals

NO. P-2184

SHEET
7

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DuraCoil - Insulated Flat Slat 22 Ga.

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

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Masonry Jambs 3000 PSI	Bolt Spacing Masonry Jambs 4000 PSI	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"	N/A	173
	18 - 22		93	D.R. - 2.25						18"	21"		
	24 - 30		94	D.R. - 2.75						22"	24"		
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24"	24"	820	220
	18 - 24		99							24"	24"		
	26 - 30		111							24"	24"		
	16 - 24	24'	101	D.R. - 3.75	1.125	2.625			24"	24"	24"	701	240
	26 - 30		110							24"	24"		
25 PSF	12 - 16	15'-5"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	19"	22"	N/A	193
	18 - 22		93	D.R. - 2.25						16"	19"		
	24 - 30		94	D.R. - 2.75						17"	19"		
	12 - 16	21'-4"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	21"	1042	267
	18 - 24		99							24"	24"		
	26 - 30		111							21"	22"		
	16 - 24	24'	101	D.R. - 3.75	1.125	2.625			24"	23"	24"	978	300
	26 - 30		110							23"	24"		
30 PSF	12 - 16	14'-1"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	17"	20"	N/A	211
	18 - 22		93	D.R. - 2.25						15"	17"		
	24 - 30		94	D.R. - 2.75						18"	19"		
	12 - 16	19'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	21"	1016	293
	18 - 24		99							24"	24"		
	26 - 30		111							20"	21"		
	16 - 24	22'-3"	101	D.R. - 3.75	1.125	2.625			24"	22"	24"	1010	334
	26 - 30		110							18"	19"		
35 PSF	18 - 30	24'	110	D.R. - 3.75	1.125	2.625			24"	18"	19"	1255	360
	12 - 16	13'	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	16"	18"	N/A	228
	18 - 22		93	D.R. - 2.25						14"	16"		
	24 - 30		94	D.R. - 2.75						18"	20"		
	12 - 16	18'-1"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	984	316
	18 - 24		99							24"	24"		
	26 - 30		111							20"	22"		
	16 - 24	20'-6"	101	D.R. - 3.75	1.125	2.625			24"	23"	24"	972	359
	26 - 30		110							21"	13"	16"	
40 PSF	18 - 30	24'	110	D.R. - 3.75	1.125	2.625			21"	13"	16"	1532	420
	12 - 16	12'-2"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	15"	17"	N/A	243
	18 - 22		93	D.R. - 2.25						13"	15"		
	24 - 30		94	D.R. - 2.75						18"	20"		
	12 - 16	17'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	22"	960	340
	18 - 24		99							24"	24"		
	26 - 30		111							21"	22"		
	16 - 24	19'-2"	101	D.R. - 3.75	1.125	2.625			24"	23"	24"	943	383
	26 - 30		110							18"	N/A	12"	
45 PSF	18 - 30	24'	110	D.R. - 3.75	1.125	2.625			18"	N/A	12"	1809	480
	12 - 16	11'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	14"	16"	N/A	259
	18 - 22		93	D.R. - 2.25						12"	14"		
	24 - 30		94	D.R. - 2.75						18"	20"		
	12 - 16	16'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	22"	951	364
	18 - 24		99							24"	24"		
	26 - 30		111							21"	23"		
	16 - 24	18'-1"	101	D.R. - 3.75	1.125	2.625			24"	24"	24"	913	407
	26 - 30		110							18"	N/A	12"	
	18 - 30	22'-6"	110	D.R. - 3.75	1.125	2.625			18"	N/A	12"	1800	506
	18 - 30	24'	104	D.R. - 4.25	1.875	3.625			18"	N/A	13"	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	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Masonry Jambs 3000 PSI	Bolt Spacing Masonry Jambs 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
50 PSF	12 - 16	10'-11"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13"	15"	N/A	273
	18 - 22		93	D.R. - 2.25						11"	13"		
	24 - 30		94	D.R. - 2.75						19"	20"		
	12 - 16	15'-5"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	23"	926	385
	18 - 24		99							24"	24"		
	26 - 30		111							21"	23"		
	16 - 24	17'-2"	101	D.R. - 3.75	1.125	2.625			24"	24"	24"	879	429
	26 - 30		110							18"	N/A	13"	
55 PSF	18 - 30	21'-2"	110	D.R. - 3.75	1.125	2.625			17"	N/A	12"	1639	600
	18 - 30	24'	104	D.R. - 4.25	2.063	3.813							
	12 - 16	10'-4"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13"	15"	N/A	284
	18 - 22		93	D.R. - 2.25						11"	12"		
	24 - 30		94	D.R. - 2.75						19"	21"		
	12 - 16	14'-9"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	22"	23"	891	406
	18 - 24		99							24"	24"		
	26 - 30		111							22"	23"		
60 PSF	16 - 24	16'-5"	101	D.R. - 3.75	1.125	2.625	1/2" Gr 5	1/2"	24"	24"	24"	853	451
	26 - 30		110							19"	N/A	13"	
	18 - 30	20'	110	D.R. - 3.75	1.125	2.625				16"	N/A	12"	
	18 - 30	22'-6"	104	D.R. - 4.25	2.063	3.813				15"	N/A	N/A	1953
	18 - 30	24'	106	D.R. - 4.25	1.875	3.625							660
	12 - 16	9'-11"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12"	14"	N/A	297
	18 - 22		93	D.R. - 2.25						10"	12"		
	24 - 30		94	D.R. - 2.75						19"	21"		
65 PSF	12 - 16	14'-3"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	22"	23"	884	428
	18 - 24		99							24"	24"		
	26 - 30		111							22"	24"		

DuraCoil - Insulated Flat Slat 20 Ga.

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

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Masonry Jamb 3000 PSI	Bolt Spacing Masonry Jamb 4000 PSI	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"	N/A	178			
	18 - 22		93	D.R. - 2.25						24"	24"					
	24 - 30		94	D.R. - 2.75						17"	20"					
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24"	24"	768	220			
	18 - 24		99							24"	24"					
	26 - 30		111							24"	24"					
	16 - 24	26'	101	D.R. - 3.75	1.125	2.625			24"	23"	24"	866	260			
	26 - 30		110							24"	24"					
	18 - 24		110							24"	18"			20"	1261	
	26 - 30	30'	103	D.R. - 4.25	1.875	3.625			24"	22"	23"	911	300			
18 - 22	103		19"							20"	1068					
24 - 30	104		19"							20"	320					
25 PSF	12 - 16	15'-10"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	18"	21"	N/A	198			
	18 - 22		93	D.R. - 2.25						16"	18"					
	24 - 30		94	D.R. - 2.75						17"	19"					
	12 - 16	21'-8"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	21"	1041	271			
	18 - 24		99							20"	21"					
	26 - 30		111							24"	24"					
	16 - 24	24'-10"	101	D.R. - 3.75	1.125	2.625			24"	20"	21"	1037	310			
	26 - 30		110							22"	23"					
	18 - 24		110							20"	12"			15"	1648	
	26 - 30	30'	103	D.R. - 4.25	1.875	3.625			24"	16"	18"	1211	375			
	18 - 22		103							23"	14"	16"		1291		
	24 - 30		104							22"	12"	15"		1391		
	18 - 30	32'	104	D.R. - 4.25	1.875	3.625	22"	12"	15"	1399	400					
	30 PSF	12 - 16	14'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	17"	19"	N/A	218		
18 - 22		93		D.R. - 2.25	14"						16"					
24 - 30		94		D.R. - 2.75	18"						19"					
12 - 16		19'-10"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	21"	1015	298			
18 - 24			99							24"	24"					
26 - 30			111							24"	24"					
16 - 24		22'-6"	101	D.R. - 3.75	1.125	2.625			24"	20"	21"	996	338			
26 - 30			110							23"	24"					
18 - 30			110							17"	N/A			12"	1888	
18 - 30		32'	104	D.R. - 4.25	1.875	3.625			18"	N/A	12"	1729	480			
35 PSF		12 - 16	13'-5"	92	D.R. - 2.00	N/A			N/A	3/8" Gr 2	3/8"	24"	15"	18"	N/A	235
		18 - 22		93	D.R. - 2.25								13"	15"		
	24 - 30	94		D.R. - 2.75	18"		20"									
	12 - 16	18'-5"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	983	322			
	18 - 24		99							24"	24"					
	26 - 30		111							24"	24"					
	16 - 24	20'-10"	101	D.R. - 3.75	1.125	2.625			24"	20"	22"	970	365			
	26 - 30		110							23"	24"					
	18 - 30		110							17"	N/A			12"	1855	
	18 - 30	30'	104	D.R. - 4.25	2.063	3.813			16"	N/A	12"	1714	525			
18 - 30	32'	106	D.R. - 4.25	1.875	3.625	15"			N/A	N/A	2060	560				
40 PSF	12 - 16	12'-6"	92	D.R. - 2.00	N/A	N/A			3/8" Gr 2	3/8"	24"	14"	17"	N/A	250	
	18 - 22		93	D.R. - 2.25			12"	14"								
	24 - 30		94	D.R. - 2.75			18"	20"								
	12 - 16	17'-4"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	22"	961	347			
	18 - 24		99							24"	24"					
	26 - 30		111							24"	24"					
	16 - 24	19'-6"	101	D.R. - 3.75	1.125	2.625			24"	21"	22"	940	390			
	26 - 30		110							23"	24"					
	18 - 30		110							18"	N/A			12"	1825	
	18 - 30	24'-4"	110	D.R. - 3.75	1.125	2.625			17"	N/A	12"	1609	542			
18 - 30	27'-1"	104	D.R. - 4.25	2.063	3.813	13"			N/A	N/A	2390	640				
18 - 30	32'	106	D.R. - 4.25	1.875	3.625											

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Masonry Jamb 3000 PSI	Bolt Spacing Masonry Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
45 PSF	12 - 16	11'-10"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13"	16"	N/A	266
	18 - 22		93	D.R. - 2.25						19"	20"		
	24 - 30		94	D.R. - 2.75						11"	13"		
	12 - 16	16'-5"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19"	20"	929	369
	18 - 24		99							21"	23"		
	26 - 30		111							24"	24"		
	16 - 24	18'-5"	101	D.R. - 3.75	1.125	2.625			24"	21"	23"	911	414
	26 - 30		110							24"	24"		
	18 - 30		110				18"	N/A		13"	1784		
	18 - 30	26"	104	D.R. - 4.25	2.063	3.813	17"	N/A	12"	1693	585		
18 - 30	31'-1"	106	D.R. - 4.25	1.938	3.688	12"	N/A	N/A	2532	699			
50 PSF	12 - 16	11'-3"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13"	15"	N/A	281
	18 - 22		93	D.R. - 2.25						11"	13"		
	24 - 30		94	D.R. - 2.75						19"	21"		
	12 - 16	15'-8"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	22"	23"	902	392
	18 - 24		99							24"	24"		
	26 - 30		111							24"	24"		
	16 - 24	17'-6"	101	D.R. - 3.75	1.125	2.625			24"	21"	23"	877	438
	26 - 30		110				24"	24"					
	18 - 30		110				19"	N/A		13"	1752		
	18 - 30	24'-6"	104	D.R. - 4.25	2.063	3.813	16"	N/A	12"	1678	613		
18 - 30	29'-3"	106	D.R. - 4.25	1.938	3.688	12"	N/A	N/A	2538	731			
55 PSF	12 - 16	10'-8"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12"	14"	N/A	293
	18 - 22		93	D.R. - 2.25						10"	12"		
	24 - 30		94	D.R. - 2.75						19"	21"		
	12 - 16	15'-1"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	22"	23"	896	415
	18 - 24		99							24"	24"		
	36 - 30		111							24"	24"		
	16 - 24	16'-9"	101	D.R. - 3.75	1.125	2.625			24"	22"	23"	851	461
	26 - 30		110				24"	24"					
	18 - 30		110				19"	N/A		13"	1729		
	18 - 30	23'-3"	104	D.R. - 4.25	2.063	3.813	16"	N/A	12"	1666	639		
18 - 30	27'-7"	106	D.R. - 4.25	1.938	3.688	12"	N/A	N/A	2521	759			
60 PSF	12 - 16	10'-3"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12"	13"	N/A	308
	18 - 22		93	D.R. - 2.25						10"	11"		
	24 - 30		94	D.R. - 2.75						19"	21"		
	12 - 16	14'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	22"	24"	860	435
	18 - 24		99							24"	24"		
	26 - 30		111							24"	24"		
	16 - 24	16'-1"	101	D.R. - 3.75	1.125	2.625			24"	22"	24"	820	482
	26 - 30		110				24"	24"					
	18 - 30		110				19"	N/A		14"	1709		
	18 - 30	22'-3"	104	D.R. - 4.25	2.063	3.813	16"	N/A	12"	1668	668		
18 - 30	26'-3"	106	D.R. - 4.25	1.938	3.688	11"	N/A	N/A	2522	788			
65 PSF	12 - 16	9'-10"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	11"	13"	N/A	320
	18 - 22		93	D.R. - 2.25						N/A	11"		
	24 - 30		94	D.R. - 2.75						20"	22"		
	12 - 16	14'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	23"	24"	828	455
	18 - 24		99							24"	24"		
	26 - 30		111							24"	24"		
	16 - 24	15'-6"	101	D.R. - 3.75	1.125	2.625			24"	23"	24"	788	504
	26 - 30		110				24"	24"					
	18 - 30		110				21"	N/A		14"	1679		
	18 - 30	21'-6"	104	D.R. - 3.75	2.063	3.813	16"	N/A	12"	1641	691		
18 - 30	25'-1"	106	D.R. - 4.25	1.938	3.688	11"	N/A	N/A	2520	815			

DuraCoil - Insulated Flat Slat 18 Ga.

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

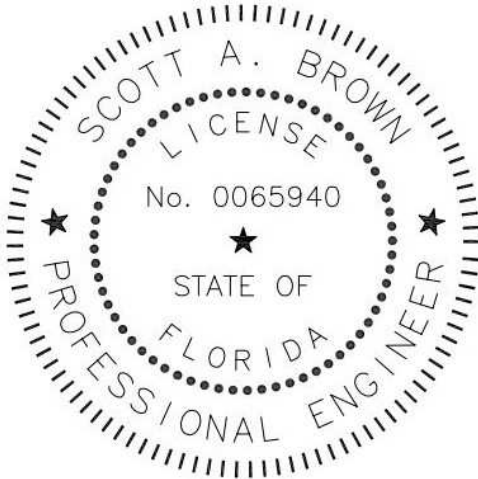
Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Masonry Jamb 3000 PSI	Bolt Spacing Masonry Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
20 PSF	12 - 16	18'-6"	92	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	20"	23"	N/A	185		
	18 - 22		93	D.R. - 2.25						17"	19"				
	24 - 30		94	D.R. - 2.75											
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24"	24"	684	220		
	18 - 24		99	D.R. - 3.00						24"	24"				
	26 - 30		111	D.R. - 3.00						24"	24"				
	16 - 24	26'	101	D.R. - 3.75	1.125	2.625			24"	24"	24"	805	260		
	26 - 30		110	D.R. - 3.75						24"	24"				
	18 - 24		110	D.R. - 3.75						1.125	2.625	24"	19"	20"	1215
	26 - 30	103	D.R. - 4.25	1.875	3.625	23"			24"	866					
	18 - 22	35'	103	D.R. - 4.25	1.875	3.625			24"	16"	17"		1267	350	
	24 - 30		104	D.R. - 4.25						15"	17"				
18 - 30	40'		104	D.R. - 4.25						1.875	3.625	19"	N/A	12"	1660
25 PSF	12 - 16	16'-6"	92	D.R. - 2.00	N/A	N/A			3/8" Gr 2	3/8"	24"	18"	20"	N/A	206
	18 - 22		93	D.R. - 2.25								15"	17"		
	24 - 30		94	D.R. - 2.75			20"	22"							
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18"	20"	1010	275		
	18 - 24		99	D.R. - 2.75						20"	22"				
	26 - 30		111	D.R. - 3.00						1.000	2.125	24"	24"	24"	669
	16 - 24	25'-4"	101	D.R. - 3.75	1.125	2.625			24"	20"	21"	1034	317		
	26 - 30		110	D.R. - 3.75						22"	23"				
	18 - 24		30'	110						D.R. - 3.75	1.125	2.625	20"	12"	15"
	26 - 30	103		D.R. - 4.25	1.875	3.625			17"	18"	1166				
	18 - 22	32'-3"		103	D.R. - 4.25	2.125			3.875	23"	15"	16"		1281	403
	24 - 30		104	D.R. - 4.25	1.875	3.625			22"		12"	15"	1383		
	18 - 30		37'	104	D.R. - 4.25	2.063			3.813		16"	N/A	12"	1739	463
	18 - 30	40'	106	D.R. - 4.25	1.875	3.625			15"	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"	N/A
		18 - 22		93	D.R. - 2.25		14"	16"							
24 - 30		94		D.R. - 2.75	18"		20"								
12 - 16		20'-3"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18"	20"	996	304		
18 - 24			99	D.R. - 2.75						20"	22"				
26 - 30			111	D.R. - 3.00	1.000	2.125				24"	24"	24"		634	
16 - 24		23'	101	D.R. - 3.75	1.125	2.625			24"	20"	21"	992	345		
26 - 30			110	D.R. - 3.75						23"	24"				
18 - 30			29'	110						D.R. - 3.75	1.125	2.625		17"	N/A
18 - 30		33'	104	D.R. - 4.25	2.063	3.813			16"	N/A	12"	1704	495		
18 - 30	40'	106	D.R. - 4.25	1.938	3.688	12"			N/A	N/A	2538	600			
35 PSF	12 - 16	13'-11"	92	D.R. - 2.00	N/A	N/A			3/8" Gr 2	3/8"	24"	15"	17"	N/A	244
	18 - 22		93	D.R. - 2.25								13"	15"		
	24 - 30		94	D.R. - 2.75			18"	20"							
	12 - 16	18'-11"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	981	331		
	18 - 24		99	D.R. - 2.75						20"	22"				
	26 - 30		111	D.R. - 3.00	1.000	2.125				24"	24"	24"		600	
	16 - 24	21'-3"	101	D.R. - 3.75	1.125	2.625			24"	21"	22"	950	372		
	26 - 30		110	D.R. - 3.75						23"	24"				
	18 - 30		26'-8"	110						D.R. - 3.75	1.125	2.625		17"	N/A
	18 - 30	30'-6"	104	D.R. - 4.25	2.063	3.813			16"	N/A	12"	1729	534		
18 - 30	40'	106	D.R. - 4.25	1.938	3.688	11"			N/A	N/A	2992	700			
40 PSF	12 - 16	13'	92	D.R. - 2.00	N/A	N/A			3/8" Gr 2	3/8"	24"	14"	16"	N/A	260
	18 - 22		93	D.R. - 2.25								12"	14"		
	24 - 30		94	D.R. - 2.75			19"	20"							
	12 - 16	17'-9"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	23"	938	355		
	18 - 24		99	D.R. - 2.75						24"	24"			24"	
	26 - 30		111	D.R. - 3.00	1.000	2.125					24"	24"		24"	541
	16 - 24	19'-11"	101	D.R. - 3.75	1.125	2.625			24"	21"	23"	918	398		
	26 - 30		110	D.R. - 3.75						24"	24"				
	18 - 30		24'-8"	110						D.R. - 3.75	1.125	2.625		18"	N/A
	18 - 30	28'-3"	104	D.R. - 4.25	2.063	3.813			16"	N/A	12"	1714	565		
18 - 30	38'-7"	106	D.R. - 4.25	1.938	3.688	10"			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	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Masonry Jamb 3000 PSI	Bolt Spacing Masonry Jamb 4000 PSI	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"	N/A	276			
	18 - 22		93	D.R. - 2.25						11"	13"					
	24 - 30		94	D.R. - 2.75												
	12 - 16	16'-11"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19"	20"	930	381			
	18 - 24		99	D.R. - 3.00						21"	23"					
	26 - 30		111	D.R. - 3.00						24"	24"					
	16 - 24	18'-10"	101	D.R. - 3.75	1.125	2.625			24"	21"	23"	886	424			
	26 - 30		110	D.R. - 3.75						24"	24"					
	18 - 30	23'	110	D.R. - 3.75	1.125	2.625			18"	N/A	13"	1772	518			
	18 - 30	26'	104	D.R. - 4.25						16"	N/A	12"	1632	585		
	18 - 30	35'-8"	106	D.R. - 4.25						10"	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"	N/A	292			
	18 - 22		93	D.R. - 2.25						10"	12"					
	24 - 30		94	D.R. - 2.75						19"	21"					
	12 - 16	16'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	23"	905	404			
	18 - 24		99	D.R. - 2.75						21"	23"					
	26 - 30		111	D.R. - 3.00						24"	24"					
	18 - 30	17'-11"	101	D.R. - 3.75	1.125	2.625			24"	22"	24"	851	448			
	18 - 30		110	D.R. - 3.75						24"	24"					
	18 - 30		21'-9"	110						D.R. - 3.75	18"			N/A	13"	1755
	18 - 30	25'	104	D.R. - 4.25	16"	N/A			12"	1695	625					
	18 - 30	33'-2"	106	D.R. - 4.25	10"	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"	N/A	305			
	18 - 22		93	D.R. - 2.25						10"	12"					
	24 - 30		94	D.R. - 2.75						19"	21"					
	12 - 16	15'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	22"	24"	871	426			
	18 - 24		99	D.R. - 3.00						24"	24"					
	26 - 30		111	D.R. - 3.00						24"	24"					
	16 - 24	17'-2"	101	D.R. - 3.75	1.125	2.625			24"	22"	24"	824	472			
	26 - 30		110	D.R. - 3.75						24"	24"					
	18 - 30		20'-7"	110						D.R. - 3.75	19"			N/A	14"	1712
	18 - 30	23'-9"	104	D.R. - 4.25	16"	N/A			12"	1683	653					
	18 - 30	31'-2"	106	D.R. - 4.25	10"	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"	N/A	320			
	18 - 22		93	D.R. - 2.25						N/A	11"					
	24 - 30		94	D.R. - 2.75						N/A	11"					
	12 - 16	14'-11"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	835	448			
	18 - 24		99	D.R. - 2.75						23"	24"					
	26 - 30		111	D.R. - 3.00						24"	24"					
	16 - 24	16'-6"	101	D.R. - 3.75	1.125	2.625			24"	23"	24"	791	495			
	26 - 30		110	D.R. - 3.75						24"	24"					
	18 - 30		19'-8"	110						D.R. - 3.75	19"			N/A	14"	1689
	18 - 30	22'-9"	104	D.R. - 4.25	16"	N/A			12"	1686	683					
	18 - 30	29'-5"	106	D.R. - 4.25	10"	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"	N/A	333			
	18 - 22		93	D.R. - 2.25						N/A	11"					
	24 - 30		94	D.R. - 2.75						N/A	11"					
	12 - 16	14'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19"	21"	840	471			
	18 - 24		99	D.R. - 2.75						22"	24"					
	26 - 30		111	D.R. - 3.00						24"	24"					
	16 - 24	15'-11"	101	D.R. - 3.75	1.125	2.625			24"	23"	24"	759	517			
	26 - 30		110	D.R. - 3.75						24"	24"					
	18 - 30		18'-10"	110						D.R. - 3.75	20"			N/A	14"	1657
	18 - 30	21'-10"	104	D.R. - 4.25	16"	N/A			12"	1678	710					
	18 - 30	27'-11"	106	D.R. - 4.25	10"	N/A			N/A	3058	907					

DuraCoil - Flat Slat 24 Ga.

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

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	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Masonry Jamb 3000 PSI	Bolt Spacing Masonry Jamb 4000 PSI	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"	N/A	110
	18 - 22		90	D.R. - 2.25									
	24 - 30		91	D.R. - 2.75									
	12 - 16	16'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24"	24"	482	160
	18 - 24		99	D.R. - 3.00								357	
	26 - 30		111	D.R. - 3.00								357	
25 PSF	12 - 16	9'-9"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	24"	24"	N/A	122
	18 - 22		90	D.R. - 2.25									
	24 - 30		91	D.R. - 2.75									
	12 - 16	16'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	24"	24"	684	200
	18 - 24		99	D.R. - 3.00								528	
	26 - 30		111	D.R. - 3.00								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"	N/A	134
	18 - 22		90	D.R. - 2.25						23"			
	24 - 30		91	D.R. - 2.75						23"			
	12 - 16	16'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	887	240
	18 - 24		99	D.R. - 3.00						23"			
	26 - 30		111	D.R. - 3.00						24"		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"	N/A	144
	18 - 22		90	D.R. - 2.25						22"			
	24 - 30		91	D.R. - 2.75						22"			
	12 - 16	15'-8"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18"	19"	1031	274
	18 - 24		99	D.R. - 3.00						20"	21"		
	26 - 30		111	D.R. - 3.00						23"	24"	912	
40 PSF	16 - 30	16'	111	D.R. - 3.75	0.875	2.000	1/2" Gr 5	1/2"	24"	23"	24"	870	280
	12 - 16	7'-9"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	24"	24"	N/A	155
	18 - 22		90	D.R. - 2.25						20"	23"		
	24 - 30		91	D.R. - 2.75						20"	23"		
	12 - 16	14'-7"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18"	19"	1015	292
	18 - 24		99	D.R. - 3.00						20"	21"		
45 PSF	26 - 30		111	D.R. - 3.00	0.625	1.750	1/2" Gr 5	1/2"	24"	20"	22"	1041	320
	16 - 30	16'	111	D.R. - 3.75						20"	21"		
	12 - 16	7'-3"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	22"	24"	N/A	163
	18 - 22		90	D.R. - 2.25						19"	22"		
	24 - 30		91	D.R. - 2.75						22"	24"		
	12 - 16	12'-9"	98	D.R. - 2.75	0.438	1.438	1/2" Gr 5	1/2"	24"	18"	19"	1033	287
50 PSF	18 - 24		99	D.R. - 3.00						20"	21"		
	26 - 30		111	D.R. - 3.00						20"	22"		
	18 - 30	16'	105	D.R. - 3.75	0.875	2.000	1/2" Gr 5	1/2"	24"	17"	18"	1212	360
	12 - 16	6'-11"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	21"	24"	N/A	173
	18 - 22		90	D.R. - 2.25						18"	21"		
	24 - 30		91	D.R. - 2.75						18"	21"		
55 PSF	16 - 30	12'-1"	111	D.R. - 3.00	0.375	1.500	1/2" Gr 5	1/2"	24"	18"	20"	1141	302
	18 - 30	16'	105	D.R. - 3.00	0.875	2.000	1/2" Gr 5	1/2"	24"	13"	16"	1383	400
	12 - 16	6'-7"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	20"	23"	N/A	181
	18 - 22		90	D.R. - 2.25						17"	20"		
	24 - 30		91	D.R. - 2.75						17"	20"		
	18 - 30	16'	105	D.R. - 3.00	0.875	2.000	1/2" Gr 5	1/2"	21"	N/A	14"	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"	N/A	190
	18 - 22		90	D.R. - 2.25						16"	19"		
	24 - 30		91	D.R. - 2.75						N/A	12"		
	18 - 30		105	D.R. - 3.00	0.875	2.000	1/2" Gr 5	1/2"	19"	N/A	12"	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"	N/A	195
	18 - 22		90	D.R. - 2.25						16"	18"		
	24 - 30		91	D.R. - 2.75						N/A	12"		
	18 - 30		110	D.R. - 3.75	0.875	2.375	1/2" Gr 5	1/2"	17"	N/A	12"	1896	520



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Structural Adequacy for Wind Load

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TITLE: Specifications, Windload Doors
For Florida Approvals

NO. P-2184

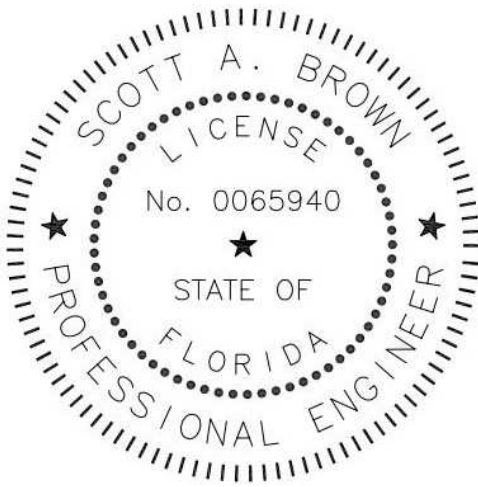
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DuraCoil - Flat Slat 22 Ga.

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

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	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Masonry Jamb 3000 PSI	Bolt Spacing Masonry Jamb 4000 PSI	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"	N/A	145
	18 - 22		90	D.R. - 2.25						21"			
	24 - 30		91	D.R. - 2.75						17"	19"		
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19"	21"	1083	220
	18 - 24		99							24"	24"		
	26 - 30		111							24"	24"		
25 PSF	12 - 16	13'	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	22"	24"	N/A	163
	18 - 22		90	D.R. - 2.25						19"	22"		
	24 - 30		91	D.R. - 2.75						18"	20"		
	12 - 16	19'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	1011	238
	18 - 24		99							24"	24"		
	26 - 30		111							24"	24"		
	16 - 24	22'	101	D.R. - 3.75	1.125	2.625			24"	21"	22"	994	275
	26 - 30		110										
30 PSF	12 - 16	11'-10"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	20"	24"	N/A	177
	18 - 22		90	D.R. - 2.25						17"	20"		
	24 - 30		91	D.R. - 2.75						18"	19"		
	12 - 16	17'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	21"	1037	263
	18 - 24		99							24"	24"		
	26 - 30		111							24"	24"		
	18 - 30	22'	110	D.R. - 3.75	1.125	2.625			24"	19"	20"	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"	N/A	191
	18 - 22		90	D.R. - 2.25						16"	19"		
	24 - 30		91	D.R. - 2.75						18"	19"		
	12 - 16	16'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	21"	1027	283
	18 - 24		99							24"	24"		
	26 - 30		111							24"	24"		
	18 - 30	22'	110	D.R. - 3.75	1.125	2.625			24"	15"	16"	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"	N/A
18 - 22		90		D.R. - 2.25	15"						17"		
24 - 30		91		D.R. - 2.75	18"						19"		
12 - 16		15'-1"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	1009	302
18 - 24			99							23"	24"		
26 - 30			111							N/A	14"		
18 - 30		22'	110	D.R. - 3.75	1.125	2.625			23"	N/A	14"	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"	N/A	218
	18 - 22		90	D.R. - 2.25						14"	16"		
	24 - 30		91	D.R. - 2.75						18"	20"		
	12 - 16	14'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	22"	981	319
	18 - 24		99							21"	22"		
	26 - 30		111							N/A	12"		
	18 - 30	21'-3"	110	D.R. - 3.75	1.125	2.625			22"	N/A	12"	1840	478
	18 - 30	22'	104	D.R. - 4.25	2.000	3.750			20"	N/A	15"	1419	495
50 PSF	12 - 16	9'-2"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	16"	18"	N/A	229
	18 - 22		90	D.R. - 2.25						13"	16"		
	24 - 30		91	D.R. - 2.75						24"	19"		
	16 - 30	13'-3"	111	D.R. - 3.00	0.500	1.625	1/2" Gr 5	1/2"	24"	19"	20"	1092	331
	18 - 30	18'-5"	105	D.R. - 3.00	1.000	2.125			17"	N/A	12"	1658	460
	18 - 30	20'	107	D.R. - 3.75	1.125	2.625			15"	N/A	12"	1839	500
	18 - 30	22'	104	D.R. - 4.25	2.062	3.812			17"	N/A	12"	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"	N/A	241
	18 - 22		90	D.R. - 2.25						13"	15"		
	24 - 30		91	D.R. - 2.75						24"	19"		
	16 - 30	12'-2"	111	D.R. - 3.00	0.406	1.531	1/2" Gr 5	1/2"	24"	19"	20"	1104	335
	18 - 30	17'-6"	105	D.R. - 3.00	1.000	2.125			17"	N/A	12"	1662	481
	18 - 30	18'-11"	107	D.R. - 3.75	1.125	2.625			16"	N/A	12"	1832	520
	18 - 30	21'	104	D.R. - 4.25	2.062	3.812			16"	N/A	12"	1599	578
	18 - 30	22'	104	D.R. - 4.25	2.062	3.812			16"	N/A	N/A	1754	605
60 PSF	12 - 16	8'-4"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	14"	17"	N/A	250
	18 - 22		90	D.R. - 2.25						12"	14"		
	24 - 30		91	D.R. - 2.75						17"	N/A		
	18 - 30	16'-8"	105	D.R. - 3.00	1.000	2.125	1/2" Gr 5	1/2"	17"	N/A	12"	1654	500
	18 - 30	18'	107	D.R. - 3.75	1.125	2.625			15"	N/A	12"	1828	540
	18 - 30	20'-6"	104	D.R. - 4.25	2.062	3.812			15"	N/A	12"	1683	615
	18 - 30	22'	106	D.R. - 4.25	1.938	3.688			15"	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"	N/A	217
	18 - 22		90	D.R. - 2.25						14"	16"		
	24 - 30		91	D.R. - 2.75						17"	N/A		
	18 - 30	15'-5"	105	D.R. - 3.00	0.875	2.000	1/2" Gr 5	1/2"	17"	N/A	12"	1650	501
	18 - 30	17'-2"	107	D.R. - 3.75	1.125	2.625			15"	N/A	12"	1814	558
	18 - 30	21'-5"	106	D.R. - 4.25	1.938	3.688			14"	N/A	N/A	2079	696



Scott A. Brown, P.E. Lic. No. 65940
Wendler Engineering Services, Inc.
698 Timber Creek Road, Dixon, IL 61021
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Structural Adequacy for Wind Load

Digitally signed by Scott A Brown
Date: 2022.08.09 16:27:10 -05'00'

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SCALE: None
DRAWN BY: M. Reutzel
CHECKED BY: J. Bonnell
DATE: 09/04/14
ECN. NO.: 6939.01



TITLE: Specifications, Windload Doors
For Florida Approvals

NO. P-2184

SHEET
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E

DuraCoil - Flat Slat 20 Ga.

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

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	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Masonry Jamb 3000 PSI	Bolt Spacing Masonry Jamb 4000 PSI	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"	N/A	160
	18 - 22		90	D.R. - 2.25						20"	21"		
	24 - 30		91	D.R. - 2.75						19"	23"		
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18"	19"	1041	220
	18 - 24		99	D.R. - 3.00						20"	21"		
	26 - 30		111	D.R. - 3.00						24"	24"		
	18 - 24	26'	101	D.R. - 3.75	1.125	2.625			24"	20"	21"	1060	260
	26 - 30		110	D.R. - 4.25						22"	23"		
18 - 30	30'	103	D.R. - 4.25	1.875	3.625			24"	19"	20"	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"	N/A	178
	18 - 22		90	D.R. - 2.25						17"	20"		
	24 - 30		91	D.R. - 2.75						17"	19"		
	12 - 16	19'-9"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	21"	1059	247
	18 - 22		99	D.R. - 3.00						24"	24"		
	24 - 30		111	D.R. - 3.00						19"	21"		
	16 - 24	23'-1"	101	D.R. - 3.75	1.125	2.625	1/2" Gr 5	1/2"	24"	22"	23"	1067	289
	26 - 30		110	D.R. - 3.75						17"	18"		
	18 - 24	30'	110	D.R. - 3.75	1.125	2.625			24"	17"	18"	1373	325
	26 - 30		110	D.R. - 3.75	1.125	2.625	18"	N/A	13"	1794	375		
	26 - 30		103	D.R. - 4.25	2.000	3.750	23"	14"	16"	1310			
	30 PSF	12 - 16	13'	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	19"	22"	N/A
18 - 22		90		D.R. - 2.25	16"						18"		
24 - 30		91		D.R. - 2.75	19"						20"		
12 - 16		17'-11"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19"	20"	1040	269
18 - 24			99	D.R. - 3.00						21"	22"		
26 - 30			111	D.R. - 3.00						24"	24"		
16 - 24		20'-9"	101	D.R. - 3.75	1.125	2.625	1/2" Gr 5	1/2"	24"	21"	21"	1039	311
26 - 30			110	D.R. - 3.75						19"	12"		
18 - 30		27'-10"	110	D.R. - 3.75	1.125	2.625			17"	N/A	13"	1911	418
18 - 24			110	D.R. - 3.75	1.125	2.625	21"	12"	15"	1443			
26 - 30			104	D.R. - 4.25	1.875	3.625	19"	N/A	13"	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"	N/A
	18 - 22	90		D.R. - 2.25	15"						17"		
	24 - 30	91		D.R. - 2.75	18"						19"		
	12 - 16	16'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	1013	289
	18 - 24		99	D.R. - 3.00						24"	24"		
	26 - 30		111	D.R. - 3.00						20"	21"		
	16 - 24	19'	101	D.R. - 3.75	1.125	2.625	1/2" Gr 5	1/2"	24"	22"	24"	1012	333
	26 - 30		110	D.R. - 3.75						17"	N/A		
	18 - 30	27'-11"	110	D.R. - 3.75	1.125	2.625			16"	N/A	12"	1869	439
	18 - 24		104	D.R. - 4.25	2.063	3.813	16"	N/A	12"	1633	489		
	18 - 30		104	D.R. - 4.25	2.063	3.813	16"	N/A	N/A	1860	525		
	40 PSF	12 - 16	11'-3"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	16"	19"	N/A
18 - 22		90		D.R. - 2.25	14"						16"		
24 - 30		91		D.R. - 2.75	18"						20"		
12 - 16		15'-5"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	993	308
18 - 24			99	D.R. - 3.00						24"	24"		
26 - 30			111	D.R. - 3.00						20"	22"		
16 - 24		17'-7"	101	D.R. - 3.75	1.125	2.625	1/2" Gr 5	1/2"	24"	23"	24"	976	352
26 - 30			110	D.R. - 3.75						17"	N/A		
18 - 30		23'-1"	110	D.R. - 3.75	1.125	2.625			16"	N/A	12"	1851	462
18 - 30		25'-9"	104	D.R. - 4.25	2.063	3.813			14"	N/A	N/A	2219	600
18 - 30		30'	106	D.R. - 4.25	1.938	3.688							

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jamb	Bolt Spacing Masonry Jamb 3000 PSI	Bolt Spacing Masonry Jamb 4000 PSI	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"	N/A	238		
	18 - 22		90	D.R. - 2.25						13"	15"				
	24 - 30		91	D.R. - 2.75											
	12 - 16	14'-7"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18"	20"	983	328		
	18 - 24		99						20"	22"					
	26 - 30		111	D.R. - 3.00					0.750	1.875	24"			24"	24"
	16 - 24	16'-6"	101	D.R. - 3.75	1.125	2.625			24"	21"	22"	951	371		
	26 - 30		110						23"	24"					
	18 - 30	21'-5"	110	D.R. - 3.75	1.125	2.625			18"	N/A	12"	1823	482		
	18 - 30	24'	104	D.R. - 4.25	2.063	3.813			16"	N/A	12"	1620	540		
18 - 30	30'	106	D.R. - 4.25	1.938	3.688	12"			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"	N/A	252
	18 - 22		90	D.R. - 2.25											
	24 - 30		91	D.R. - 2.75											
	12 - 16	13'-10"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18"	20"	958	346		
	18 - 24		99						21"	22"					
	26 - 30		111	D.R. - 3.00					0.625	1.750	24"			21"	23"
	16 - 24	14'-10"	101	D.R. - 3.75	0.813	2.313			24"	20"	21"	1002	371		
	26 - 30		110						23"	24"					
	18 - 30	18'-9"	105	D.R. - 3.00	1.000	2.125			17"	N/A	12"	1665	469		
	18 - 30	22'-6"	104	D.R. - 4.25	2.063	3.813			16"	N/A	12"	1605	563		
18 - 30	28'-2"	106	D.R. - 4.25	1.938	3.688	12"			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"	N/A	264
	18 - 22		90	D.R. - 2.25											
	24 - 30		91	D.R. - 2.75											
	12 - 16	12'-9"	98	D.R. - 2.75	0.500	1.500	1/2" Gr 5	1/2"	24"	18"	20"	983	351		
	18 - 24		99						20"	22"					
	26 - 30		111	D.R. - 3.00					0.500	1.625	24"			21"	22"
	16 - 30	13'-7"	111	D.R. - 3.00	0.625	1.750			24"	19"	21"	1047	374		
	18 - 30	17'-9"	105	D.R. - 3.00	1.000	2.125			17"	N/A	12"	1650	488		
	18 - 30	19'-2"	107	D.R. - 3.75	1.125	2.625			18"	N/A	12"	1827	527		
	18 - 30	21'-3"	104	D.R. - 4.25	2.063	3.813			18"	N/A	12"	1592	584		
18 - 30	26'-7"	106	D.R. - 4.25	1.938	3.688	12"			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"	N/A	275
	18 - 22		90	D.R. - 2.25											
	24 - 30		91	D.R. - 2.75											
	12 - 16	11'-7"	98	D.R. - 2.75	0.375	1.375	1/2" Gr 5	1/2"	24"	18"	20"	977	347		
	18 - 24		99						21"	22"					
	26 - 30		111	D.R. - 3.00					0.375	1.500	24"			21"	23"
	18 - 30	16'-11"	105	D.R. - 3.00	1.000	2.125			17"	N/A	12"	1640	508		
	18 - 30	18'-3"	107	D.R. - 3.75	1.125	2.625			18"	N/A	12"	1821	548		
18 - 30	20'-3"	104	D.R. - 4.25	2.063	3.813	18"			N/A	12"	1591	608			
18 - 30	25'-2"	106	D.R. - 4.25	1.938	3.688	12"			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"	N/A	287
	18 - 22		90	D.R. - 2.25											
	24 - 30		91	D.R. - 2.75											
	16 - 30	11'-5"	111	D.R. - 3.00	0.375	1.500	1/2" Gr 5	1/2"	24"	19"	21"	1065	371		
	18 - 30	16'-3"	105	D.R. - 3.00	1.000	2.125			18"	N/A	12"	1644	528		
	18 - 30	17'-5"	107	D.R. - 3.75	1.125	2.625			18"	N/A	12"	1805	566		
	18 - 30	20'-3"	104	D.R. - 4.25	2.063	3.813			16"	N/A	N/A	1750	658		
18 - 30	23'-11"	106	D.R. - 4.25	1.938	3.688	12"	N/A	N/A	2507	777					

DuraCoil - Flat Slat 18 Ga.

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

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Masonry Jambs 3000 PSI	Bolt Spacing Masonry Jambs 4000 PSI	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"	N/A	173							
	18 - 22		90	D.R. - 2.25						18"	21"									
	24 - 30		91	D.R. - 2.75						19"	21"									
	12 - 16	22'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	19"	21"	966	220							
	18 - 24		99	D.R. - 3.00						22"	23"									
	26 - 30		111	D.R. - 3.00						24"	24"			693						
	16 - 24	26'	101	D.R. - 3.75	1.125	2.625			24"	20"	22"	1007	260							
	26 - 30		110	D.R. - 3.75						23"	24"									
	18 - 24		110	D.R. - 3.75						17"	18"			1367	300					
	26 - 30	103	D.R. - 3.75	20"	21"	1018														
	18 - 22	35'	103	D.R. - 4.25	1.875	3.625			23"	13"	16"	1378	350							
	24 - 30		104	D.R. - 4.25						13"	16"									
18 - 30	40'	104	D.R. - 4.25	2.063	3.813				18"	N/A	12"	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"	N/A	193							
	18 - 22		90	D.R. - 2.25						16"	19"									
	24 - 30		91	D.R. - 2.75						17"	19"									
	12 - 16	20'-4"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	21"	1053	254							
	18 - 22		99	D.R. - 3.00						24"	24"			749						
	24 - 30		111	D.R. - 3.00						1.000	2.125									
	16 - 24	23'-7"	101	D.R. - 3.75	1.125	2.625			24"	19"	21"	1055	295							
	26 - 30		110	D.R. - 3.75						22"	23"									
	18 - 24		110	D.R. - 3.75						1.125	2.625									
	26 - 30	30'	103	D.R. - 4.25	1.875	3.625			23"	19"	N/A	14"	1754	375						
	18 - 30		104	D.R. - 4.25						1.875	3.625									
	18 - 30		104	D.R. - 4.25						2.063	3.813									
	18 - 30	38'-8"	104	D.R. - 4.25	2.063	3.813				18"	N/A	12"	1668	438						
	18 - 30	40'	104	D.R. - 4.25	2.063	3.813				16"	N/A	N/A	1983	483						
18 - 30	106		D.R. - 4.25	1.875						3.625	14"	N/A	N/A	2207	500					
30 PSF	12 - 16	14'-1"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	17"	20"	N/A	211							
	18 - 22		90	D.R. - 2.25						15"	17"									
	24 - 30		91	D.R. - 2.75						18"	19"									
	12 - 16	18'-6"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	18"	19"	1031	278							
	18 - 24		99	D.R. - 3.00						1.000	2.125			24"	24"	24"	714			
	26 - 30		111	D.R. - 3.00						1.000	2.125			24"	20"	21"	1022	319		
	16 - 24	21'-3"	101	D.R. - 3.75	1.125	2.625			24"	22"	24"									
	26 - 30		110	D.R. - 3.75						1.125	2.625	17"	N/A	12"	1907	422				
	18 - 30		110	D.R. - 3.75						1.125	2.625	16"	N/A	12"	1731	480				
	18 - 30	32'	104	D.R. - 4.25	2.063	3.813				12"	N/A	N/A	2669	600						
	18 - 30	40'	106	D.R. - 4.25	1.875	3.625														
	35 PSF	12 - 16	13'	89	D.R. - 2.00	N/A			N/A	3/8" Gr 2	3/8"	24"	16"	18"	N/A	228				
18 - 22		90		D.R. - 2.25	14"		16"													
24 - 30		91		D.R. - 2.75	18"		20"													
12 - 16		17'-1"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	20"	22"	1001	299							
18 - 24			99	D.R. - 3.00						1.000	2.125			24"	24"	24"	674			
26 - 30			111	D.R. - 3.00						1.000	2.125			24"	20"	22"	989	341		
16 - 24		19'-6"	101	D.R. - 3.75	1.125	2.625			24"	23"	24"									
26 - 30			110	D.R. - 3.75						1.125	2.625	17"	N/A	12"	1872	446				
18 - 30			110	D.R. - 3.75						1.125	2.625	16"	N/A	12"	1633	496				
18 - 30		28'-4"	104	D.R. - 4.25	2.063	3.813				10"	N/A	N/A	3131	700						
18 - 30		40'	106	D.R. - 4.25	1.875	3.625														
40 PSF		12 - 16	12'-2"	89	D.R. - 2.00	N/A			N/A	3/8" Gr 2	3/8"	24"	15"	17"	N/A	243				
	18 - 22	90		D.R. - 2.25	13"		15"													
	24 - 30	91		D.R. - 2.75	18"		20"													
	12 - 16	16'	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	22"	979	320							
	18 - 24		99	D.R. - 3.00						1.000	2.125			24"	21"	22"	963	363		
	26 - 30		111	D.R. - 3.00						1.000	2.125			24"	23"	24"				
	16 - 24	18'-2"	101	D.R. - 3.75	1.125	2.625			24"	21"	22"	963	363							
	26 - 30		110	D.R. - 3.75						1.125	2.625			18"	N/A	12"	1838	468		
	18 - 30		110	D.R. - 3.75						1.125	2.625			18"	N/A	12"	1614	522		
	18 - 30	23'-5"	104	D.R. - 4.25	2.063	3.813				10"	N/A	N/A	3252	760						
	18 - 30	26'-1"	104	D.R. - 4.25	2.063	3.813														
	18 - 30	38'	106	D.R. - 4.25	1.938	3.688														

Design Load	Headplate Size	Door Opening Width Including	Guide Ass'y No.	Slat Length	Slip	Wind Bar Location	Steel Jamb Bolt Dia. and Grade	Masonry Jamb Bolt Dia.	Bolt Spacing Steel Jambs	Bolt Spacing Masonry Jambs 3000 PSI	Bolt Spacing Masonry Jambs 4000 PSI	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"	N/A	259		
	18 - 22		90	D.R. - 2.25						12"	14"				
	24 - 30		91	D.R. - 2.75						18"	20"				
	12 - 16	15'-2"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	22"	968	341		
	18 - 24		99	D.R. - 3.00						24"	24"				
	26 - 30		111	D.R. - 3.00						21"	22"				
	16 - 24	17'-1"	101	D.R. - 3.75	1.125	2.625			24"	24"	24"	936	384		
	26 - 30		110	D.R. - 3.75						18"	N/A				
	18 - 30		21'-10"	110						D.R. - 3.75	N/A			12"	
	18 - 30	24'-4"	104	D.R. - 4.25	2.063	3.813			17"	N/A	12"	1604	548		
18 - 30	35'	106	D.R. - 4.25	N/A						N/A					
18 - 30	35'	106	D.R. - 4.25	10"						N/A					
50 PSF	12 - 16	10'-11"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13"	15"	N/A	273		
	18 - 22		90	D.R. - 2.25						11"	13"				
	24 - 30		91	D.R. - 2.75						18"	20"				
	12 - 16	14'-5"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	23"	942	360		
	18 - 24		99	D.R. - 3.00						24"	24"				
	26 - 30		111	D.R. - 3.00						21"	23"				
	16 - 24	16'-2"	101	D.R. - 3.75	1.125	2.625			24"	21"	23"	905	404		
	26 - 30		110	D.R. - 3.75						18"	N/A				
	18 - 30		20'-5"	110						D.R. - 3.75	N/A			13"	
	18 - 30	22'-11"	104	D.R. - 4.25	2.063	3.813			18"	N/A	12"	1597	573		
18 - 30	32'-7"	106	D.R. - 4.25	N/A						N/A					
18 - 30	32'-7"	106	D.R. - 4.25	10"						N/A					
55 PSF	12 - 16	10'-4"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	13"	15"	N/A	284		
	18 - 22		90	D.R. - 2.25						11"	12"				
	24 - 30		91	D.R. - 2.75						18"	20"				
	12 - 16	13'-10"	98	D.R. - 2.75	0.625	1.625	1/2" Gr 5	1/2"	24"	21"	23"	933	380		
	18 - 24		99	D.R. - 3.00						24"	24"				
	26 - 30		111	D.R. - 3.00						21"	22"				
	16 - 24	14'-10"	101	D.R. - 3.75	0.875	2.375			24"	21"	22"	934	408		
	26 - 30		110	D.R. - 3.75						18"	N/A				
	18 - 30		19'-4"	110						D.R. - 3.75	N/A			13"	
	18 - 30	21'-9"	104	D.R. - 4.25	2.063	3.813			18"	N/A	12"	1596	598		
18 - 30	30'-6"	106	D.R. - 4.25	N/A						N/A					
18 - 30	30'-6"	106	D.R. - 4.25	10"						N/A					
60 PSF	12 - 16	9'-11"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	12"	14"	N/A	297		
	18 - 22		90	D.R. - 2.25						10"	12"				
	24 - 30		91	D.R. - 2.75						19"	21"				
	12 - 16	13'	98	D.R. - 2.75	0.563	1.563	1/2" Gr 5	1/2"	24"	22"	23"	905	390		
	18 - 24		99	D.R. - 3.00						24"	22"				
	26 - 30		111	D.R. - 3.00						18"	12"				
	18 - 30	16'-6"	105	D.R. - 3.00	1.000	2.125			18"	N/A	15"	1408	495		
	18 - 30	18'-8"	107	D.R. - 3.75						12"	12"				
	18 - 30	20'-8"	104	D.R. - 4.25						17"	N/A				
	18 - 30	28'-9"	106	D.R. - 4.25	1.938	3.688			10"	N/A	N/A	3124	863		
18 - 30	28'-9"	106	D.R. - 4.25	12"						13"					
18 - 30	28'-9"	106	D.R. - 4.25	12"						13"					
65 PSF	12 - 16	9'-6"	89	D.R. - 2.00	N/A	N/A	3/8" Gr 2	3/8"	24"	10"	11"	N/A	309		
	18 - 22		90	D.R. - 2.25						18"	20"				
	24 - 30		91	D.R. - 2.75						21"	23"				
	12 - 16	12'-1"	98	D.R. - 2.75	0.438	1.438			24"	21"	23"	941	393		
	18 - 24		99	D.R. - 3.00						18"	12"				
	26 - 30		111	D.R. - 3.00						18"	N/A				
	18 - 30	15'-10"	105	D.R. - 3.00	1.000	2.125			18"	N/A	12"	1393	515		
	18 - 30	17'-11"	107	D.R. - 3.75						12"	12"				
18 - 30	19'-10"	104	D.R. - 4.25	17"						N/A					
18 - 30	27'-2"	106	D.R. - 4.25	1.938	3.688			10"	N/A	N/A	3084	883			
18 - 30	27'-2"	106	D.R. - 4.25						12"	12"					
18 - 30	27'-2"	106	D.R. - 4.25						12"	12"					