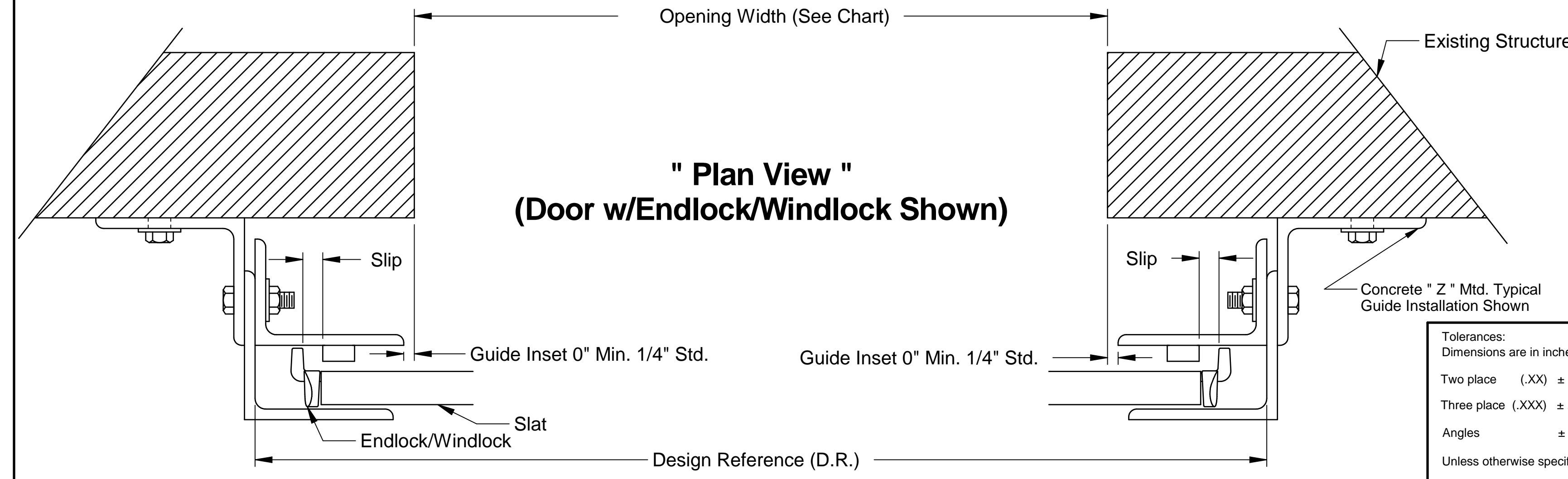
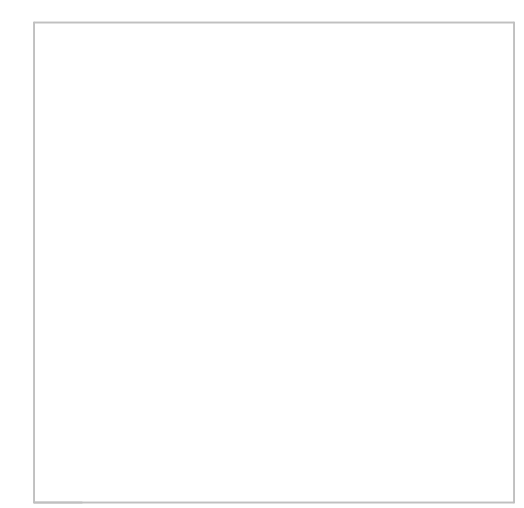


" Elevation View "



" Plan View "
(Door w/Endlock/Windlock Shown)



John E. Scates
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FL PE #51737
TX PE #56308-f2203

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Doors Tested Per
ANSI/DASMA 108-05
ANSI/DASMA 108-12
For Static Air Pressure

Complies with the Wind Load requirements
of the IBC/IRC 2018

Rev.	Description	ECO	Date
C	Added 2018 IBC/IRC note.	8534.01	03/26/21
B	Filled in missing information (Sheet 11)	7415.01	06/09/2017
A	Release for production.	7415.01	07/21/2016

Tolerances:
Dimensions are in inches
Two place (.XX) ± .03
Three place (.XXX) ± .015
Angles ± 1°
Unless otherwise specified

Material:

Finish:

Scale: None
Drawn by: M. Reutzel
Checked by: J. Bonnell
Date: 07/21/16
ECO: 7415.01

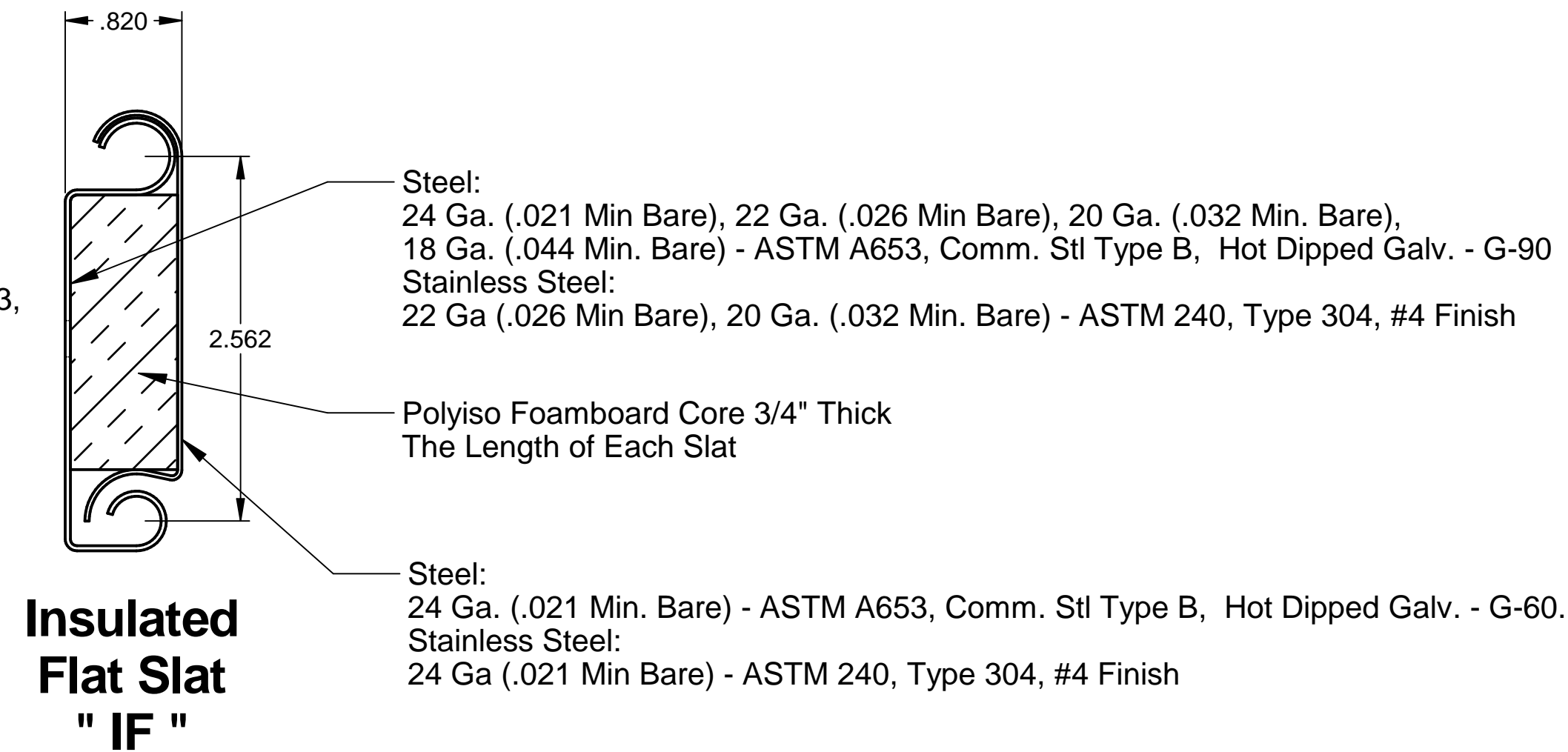
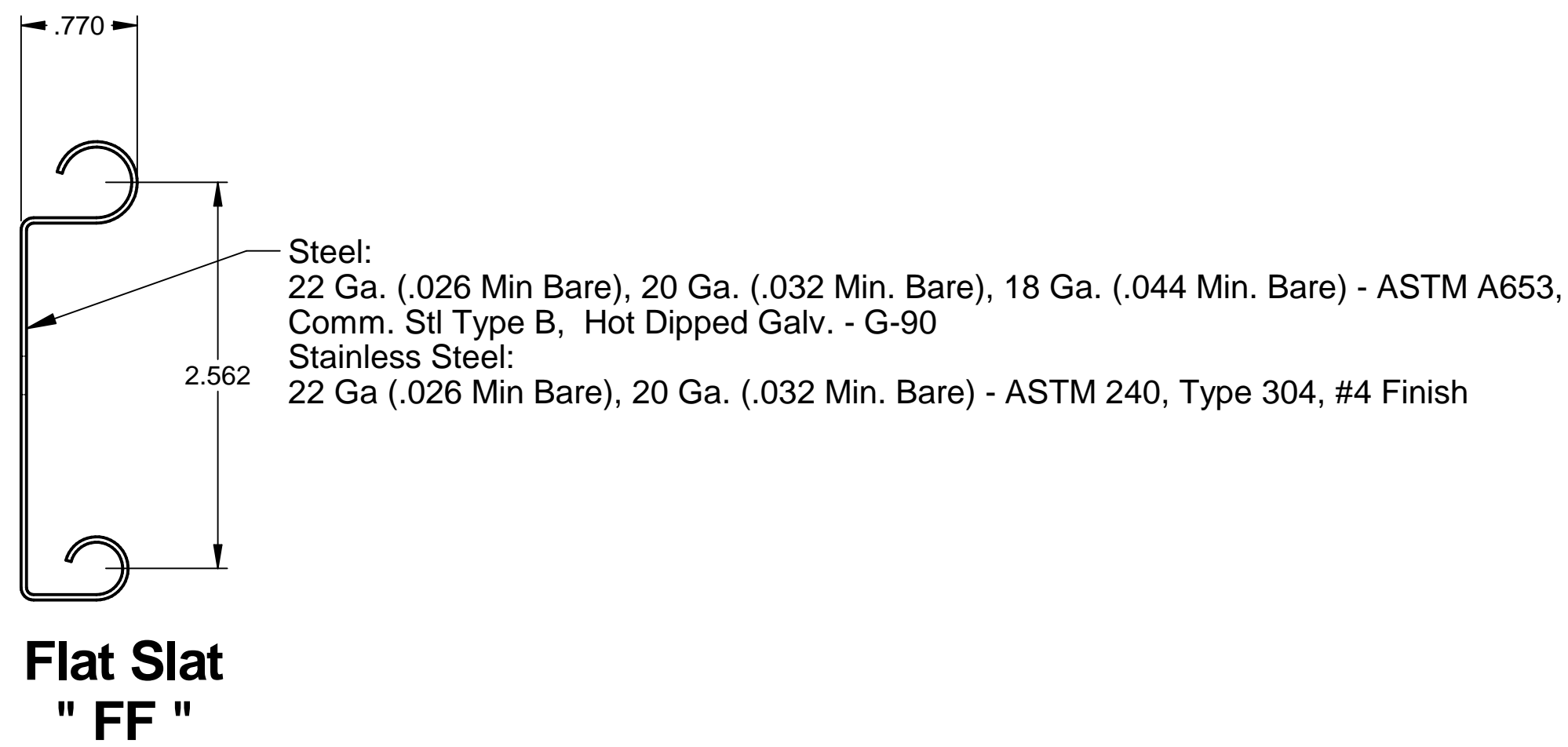


1101 East River Road
Dixon, IL 61021

Title:
Specifications, Wind Load Doors
for Texas Approvals

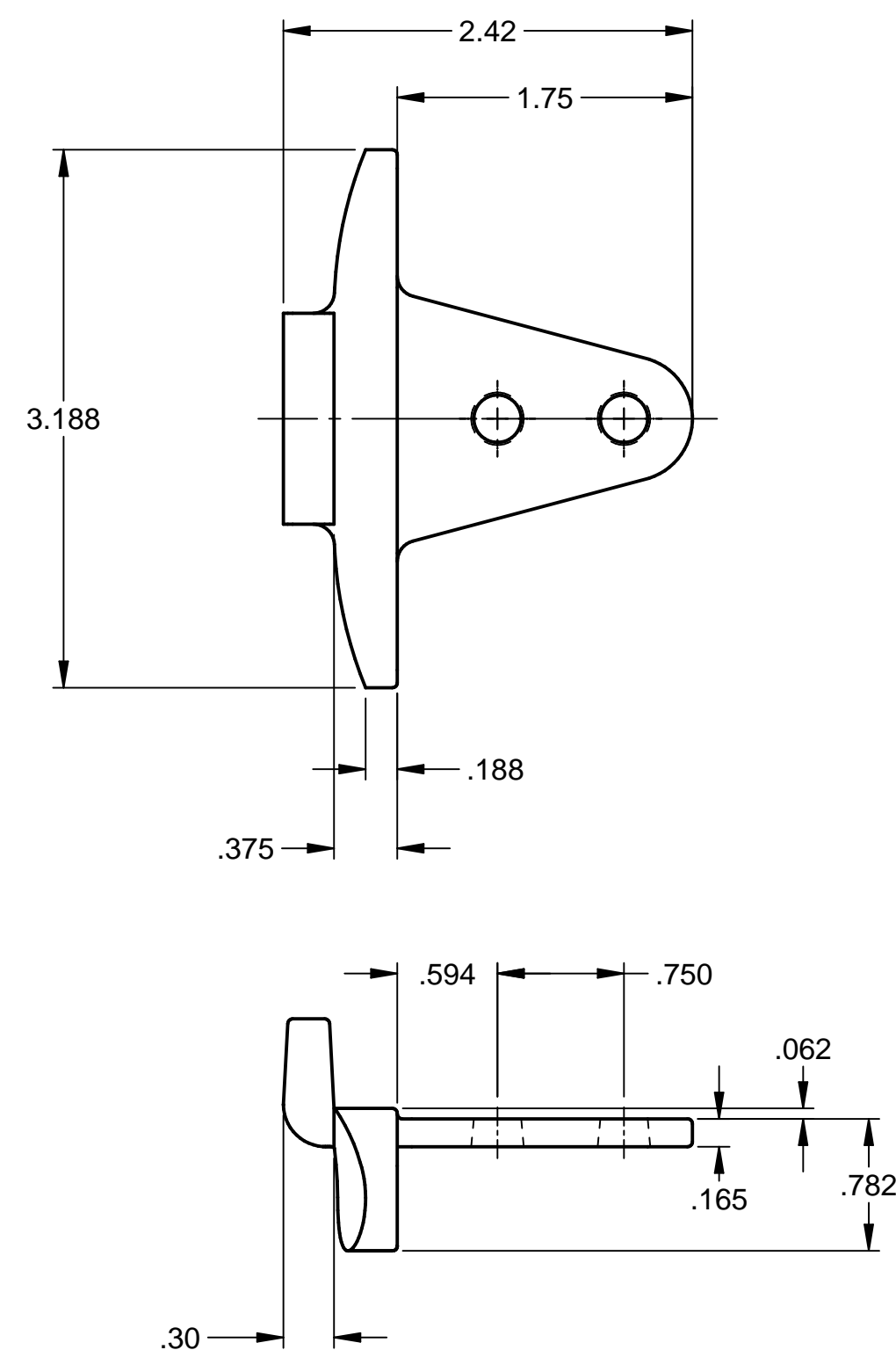
No. P-2262
Sheet 1 of 12
Rev C

General Specifications

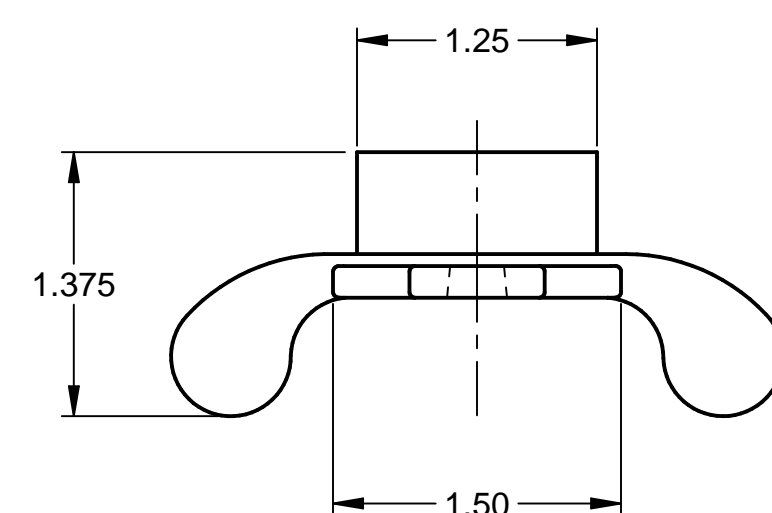
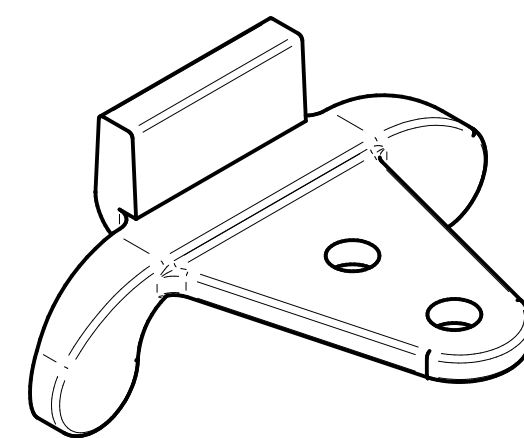


Flat Slat and Insulated Flat Slat Profiles

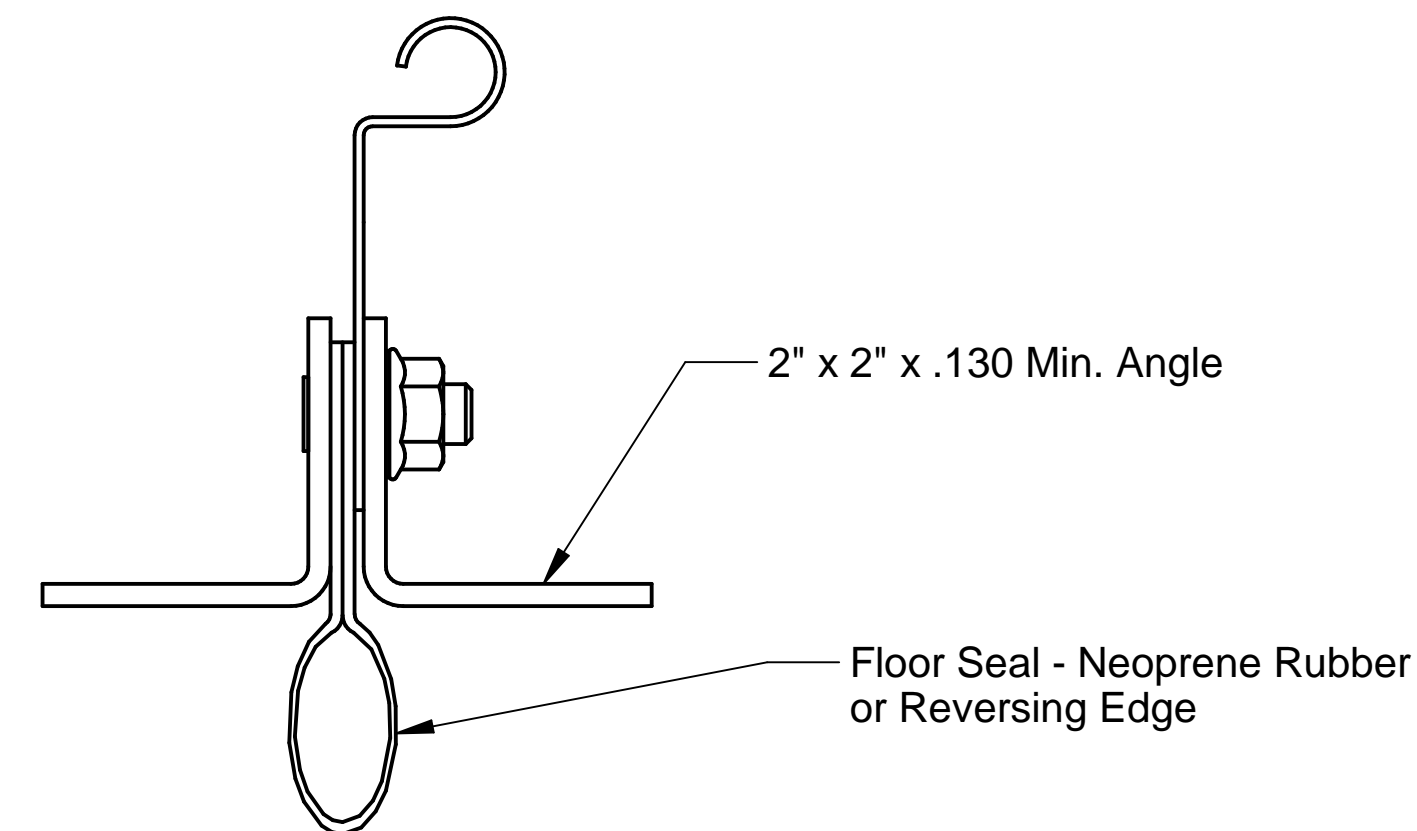
- 1) DOORS shall be rolling steel model DuraCoil (Standard Service Door) as manufactured by Raynor Garage Doors.
- 2) GUIDES - Structural steel angles, in accordance to ASTM A36 Steel, Min. 5/16" thick and rolled angles in accordance to ASTM A1011 HSLA-F, grade 50 steel, min. .180 thick. Top of guide angles flared and provided with 4 removable curtain stops.
- 3) BRACKETS - Steel plates, in accordance to ASTM A36 Steel, 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) SPRING COUNTERBALANCE - The curtain shall be counterbalanced by means of oil tempered, helical torsion springs, grease-packed and mounted on a single continuous steel torsion shaft. Springs shall be compression spring design to facilitate any counterbalance maintenance. Cast iron spring anchors shall transfer full spring loading to the barrel.
- 6) HOOD - Shall be 24 ga. Commercial quality hot-dipped galvanized steel. Hood to have rolled edges to provide rigidity.
- 7) GUIDE HARDWARE - All bolts and washers shall be galvanized steel or stainless steel with a minimum bolt tensile strength of 60 K.S.I.
- 8) ENDLOCK/WINDLOCKS and ENDLOCKS - Shall be cast malleable iron, in accordance to ASTM A47 - GRADE 32510 with electroplating in accordance to ASTM B633, clear chromate, Min. .0007 zinc coating thickness.
- 9) CURTAIN FLAT SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel per ASTM A653, Type 'B' (min. 30,000 psi) or stainless steel per ASTM 240, Type 304 (min. 30,000 psi). Malleable endlock/windlocks fastened to alternate slats with 2 rivets per lock, eliminates lateral movement and prevent slats from wearing at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with 2 steel angles, Min. 2" x 2" x .130" or 2" x 2" x 3/16" stainless steel.
- 10) CURTAIN INSULATED SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel per ASTM A653, Type 'B' (min. 30,000 psi) .or stainless steel per ASTM 240, Type 304 (min. 30,000 psi). 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 per ASTM A653 or stainless steel per ASTM 240. Malleable endlock/windlocks fastened to alternate slats with 2 rivets per lock, eliminates lateral movement and prevent slats from wearing at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with 2 steel angles, Min. 2" x 2" x .130" or 2" x 2" x 3/16" stainless steel.



Malleable Cast Iron Endlock/Windlock



Bottom Bar Standard Assembly



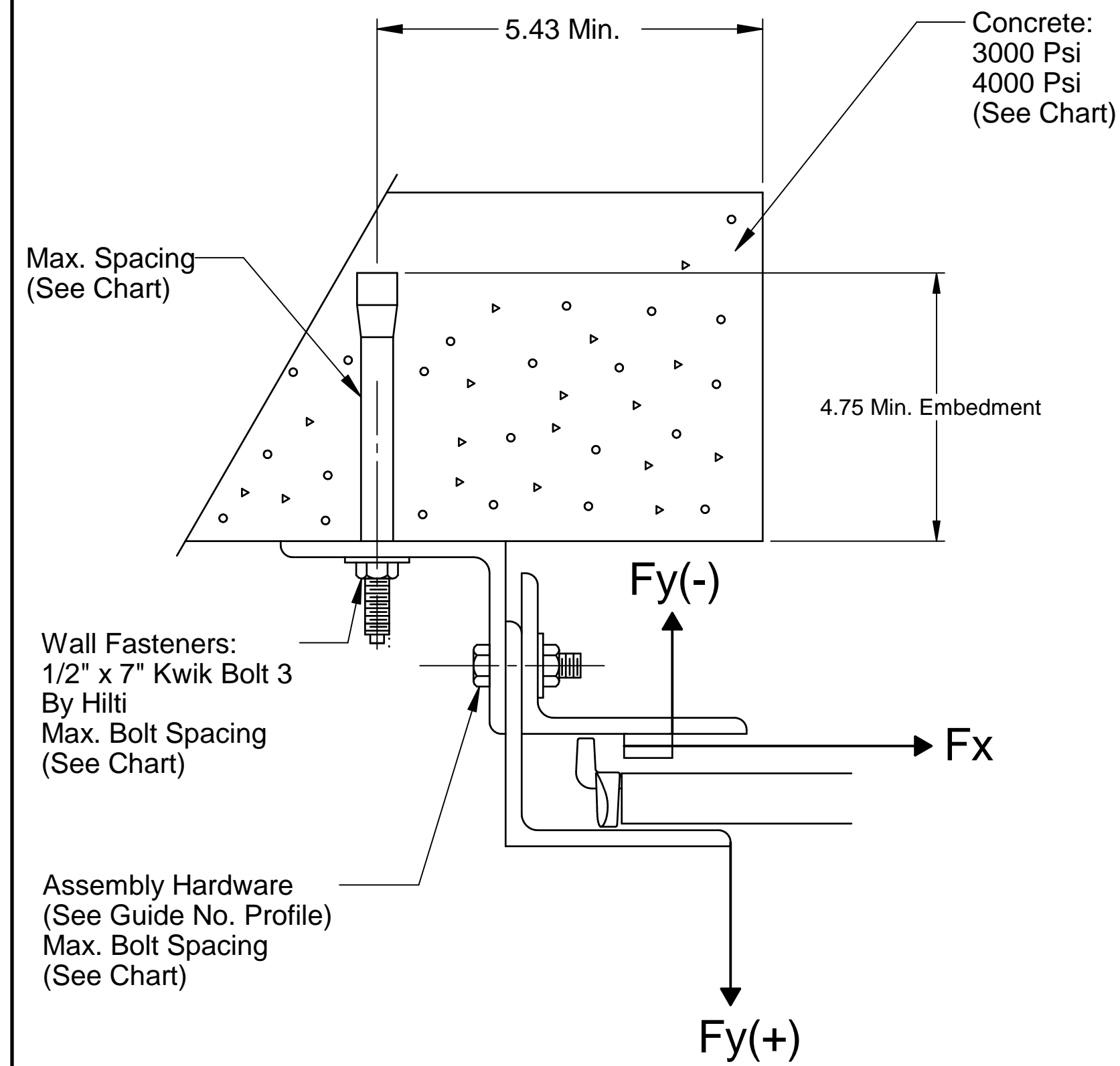
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TX PE #56308-f2203

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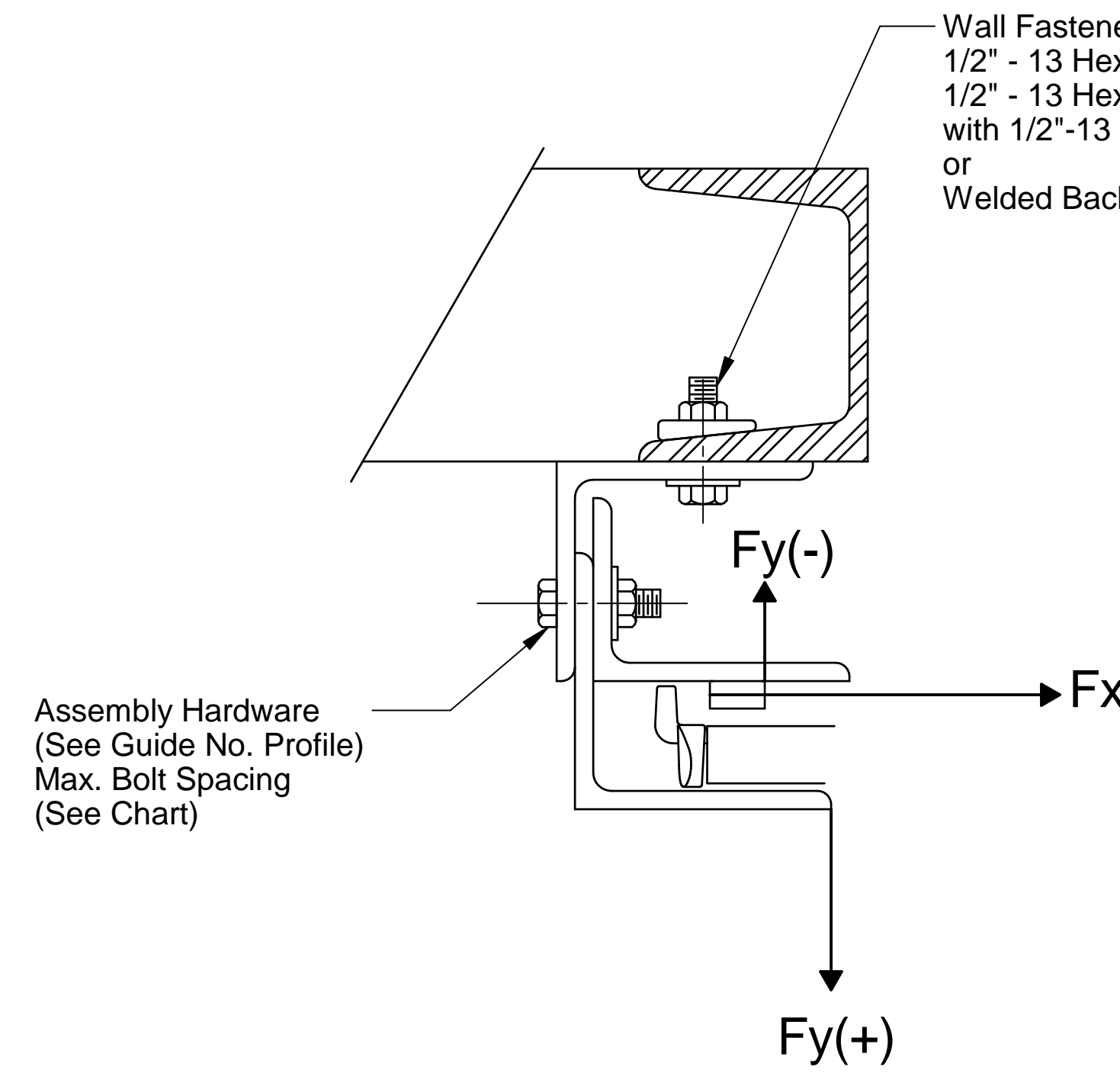
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Drawn by: M. Reutzel		No. P-2262	Sheet 2
Checked by: J. Bonnell			Rev C
Date: 07/21/16			
ECO: 7415.01			

Notes:

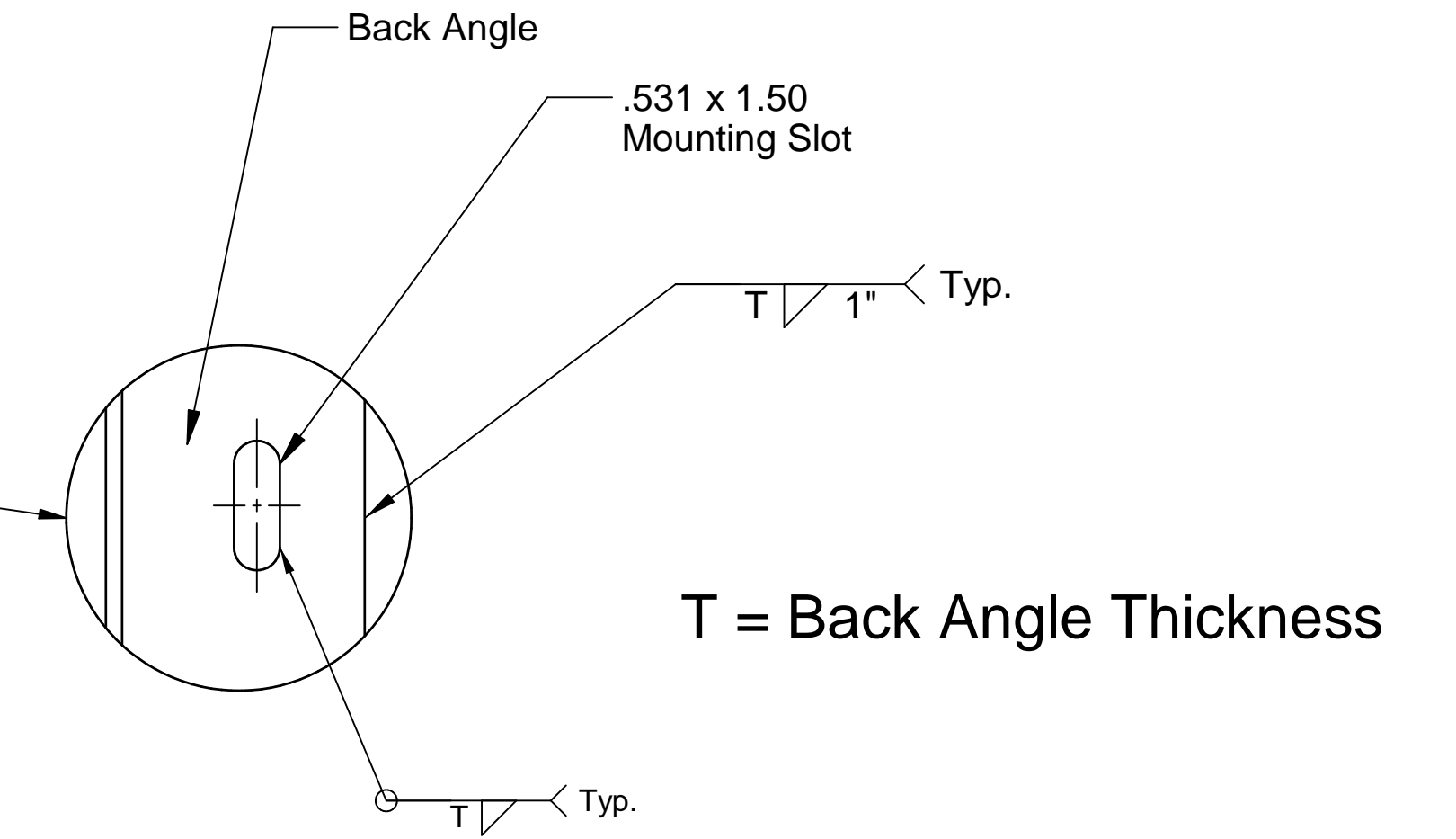
1. Building Designer Note: Structure must be designed to support the forces of "Fx" and "Fy" shown in chart
2. Fx and Fy are horizontal and vertical components of the reaction, resulting from windloads on the rolling steel door. The existing structure shall be capable of resisting Fx and Fy forces shown.



**Concrete Jamb - " Z " Mtd. (Shown)
or
Steel Jamb - "Z" Mtd.**



Steel Jamb - " E " Mtd.




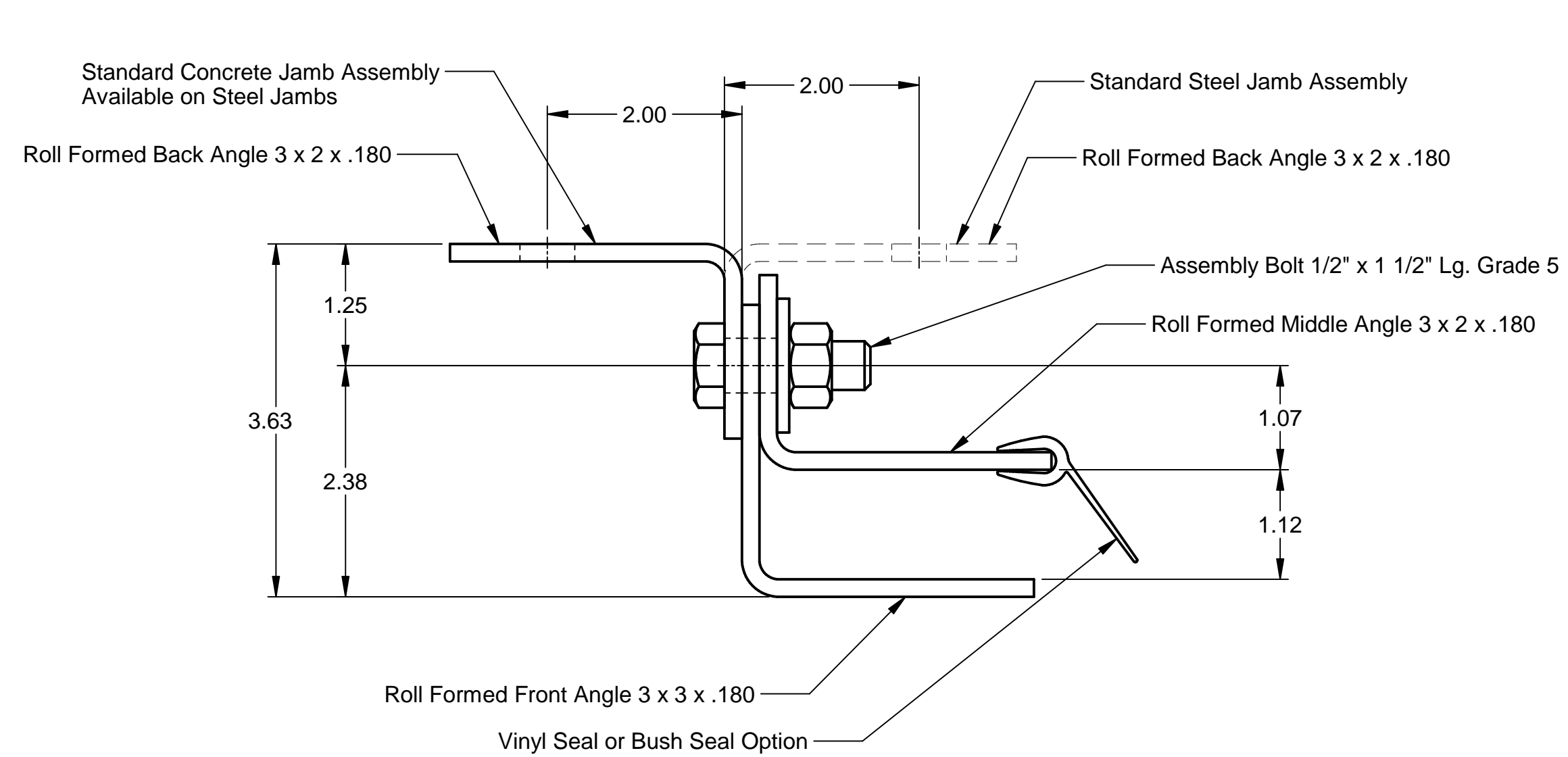
" Welding Detail "
(Weld may be used in lieu of
bolting at same bolt spacing)



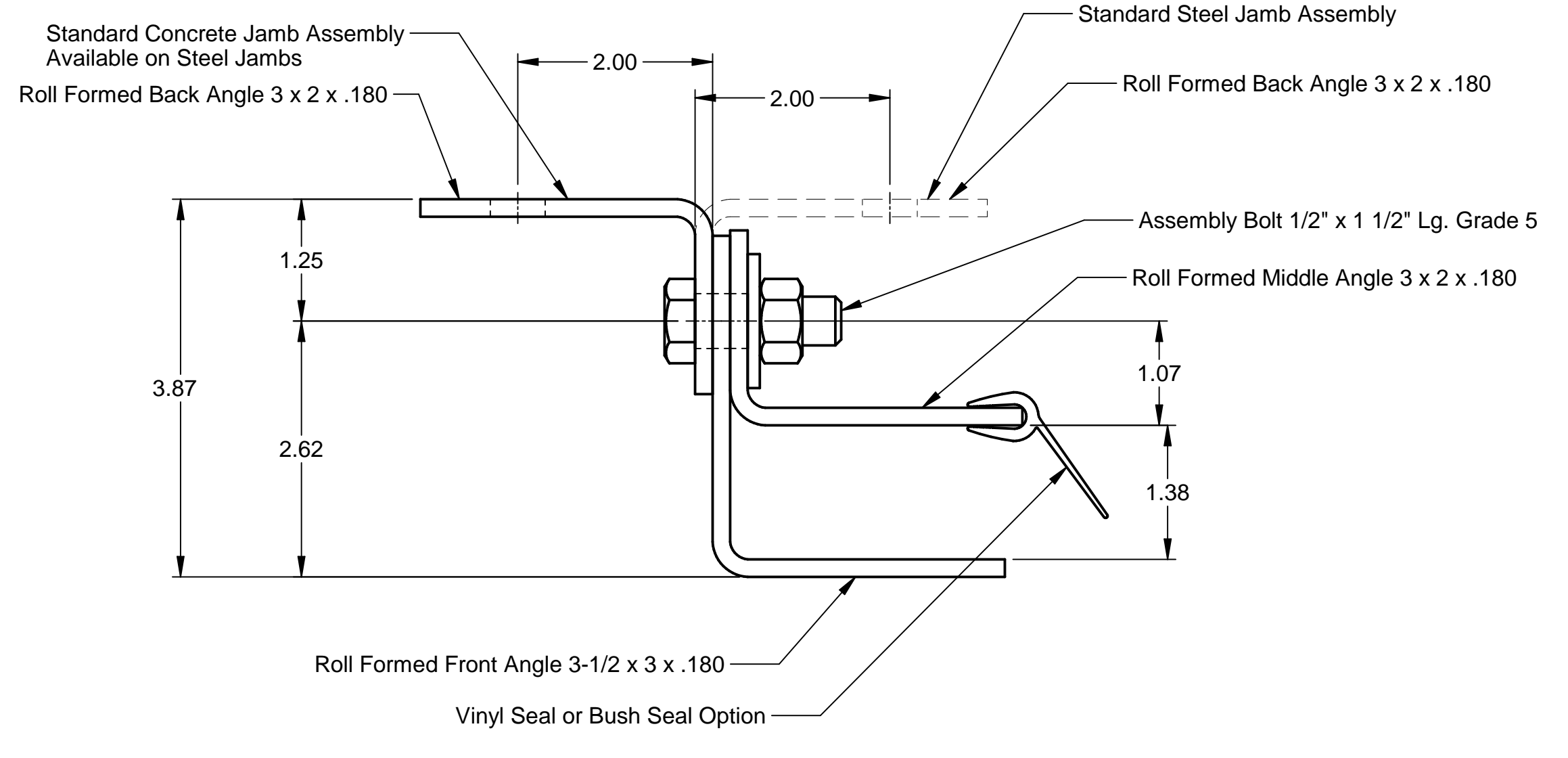
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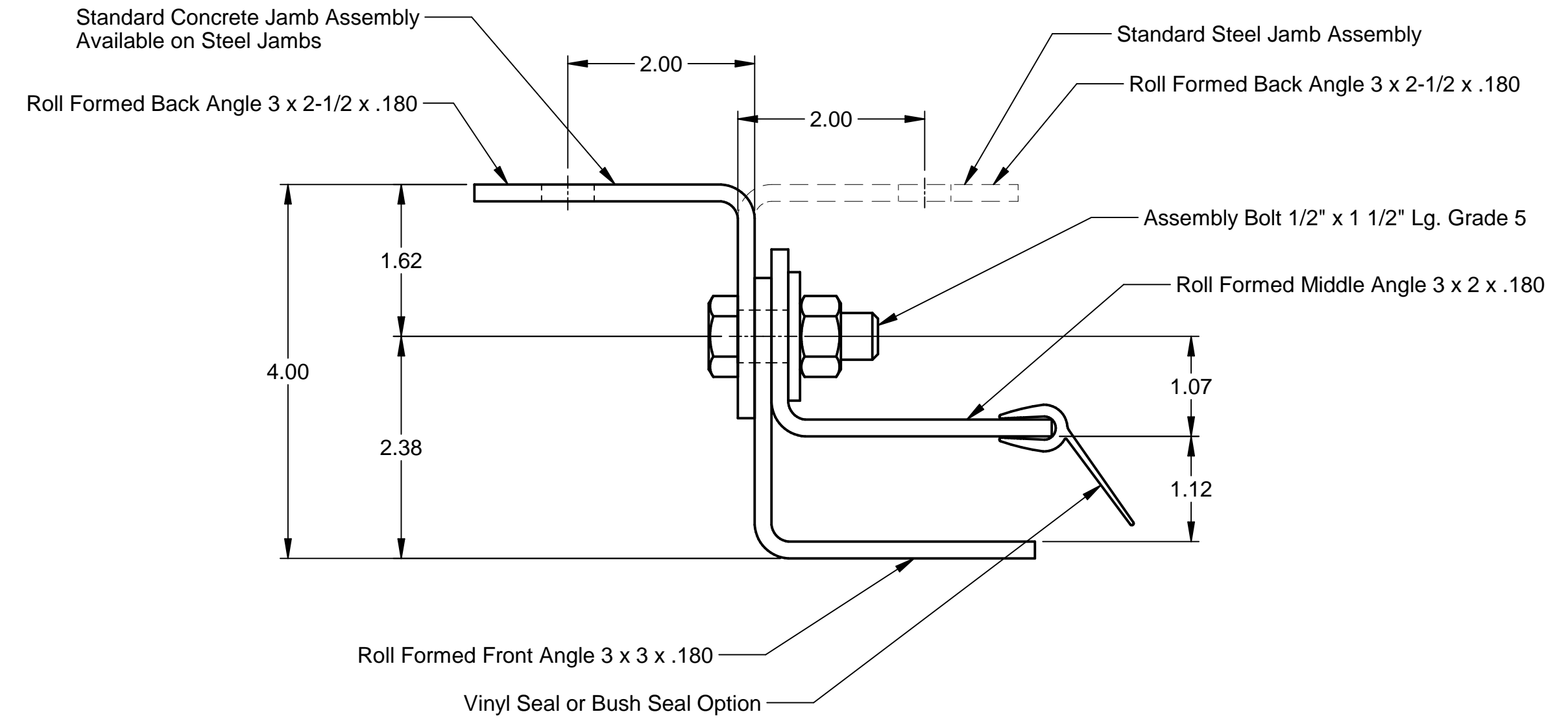
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Drawn by: M. Reutzel		No. P-2262	Sheet 3
Checked by: J. Bonnell			Rev C
Date: 07/21/16 ECO: 7415.01			



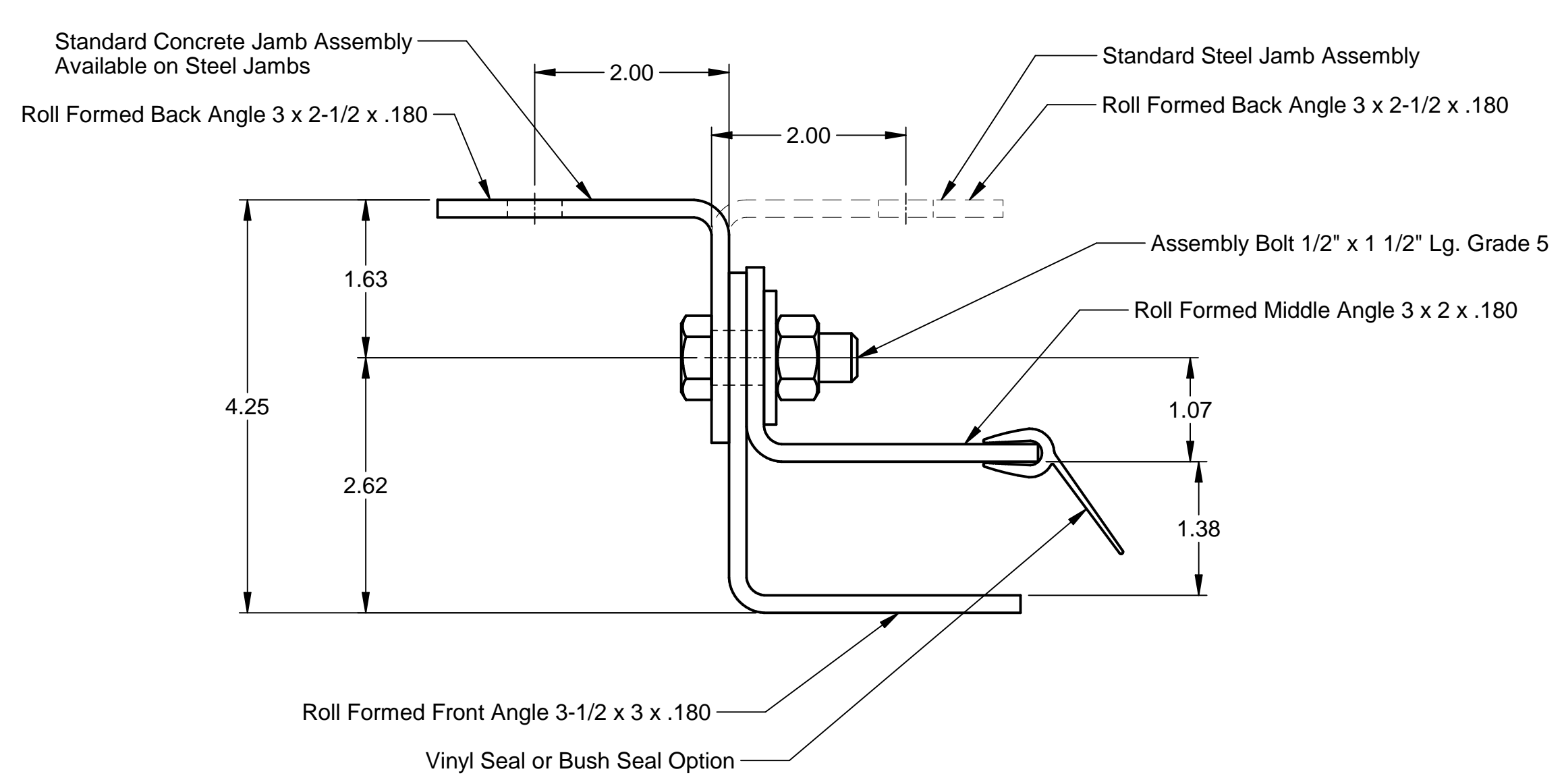
Guide Ass'y #89



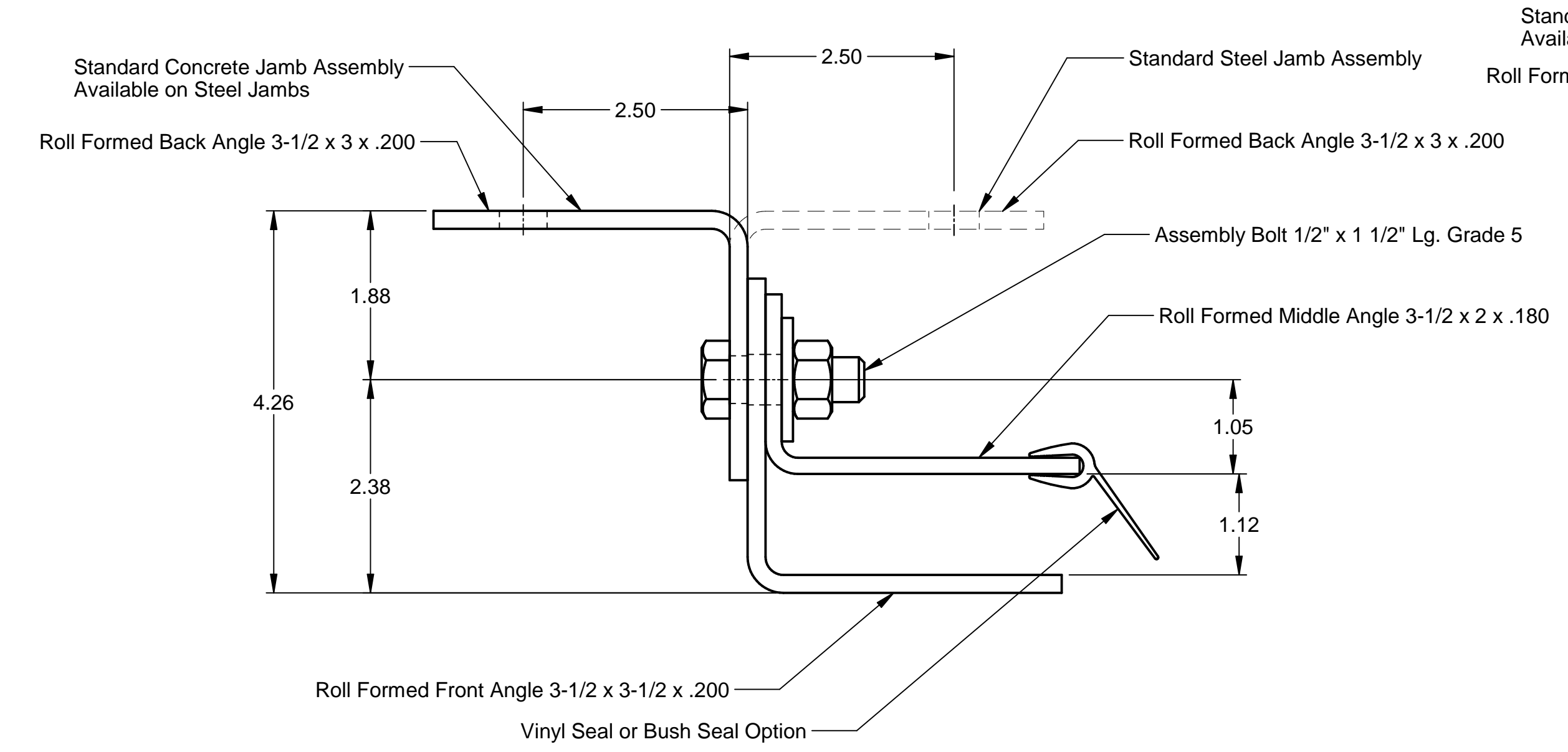
Guide Ass'y #92



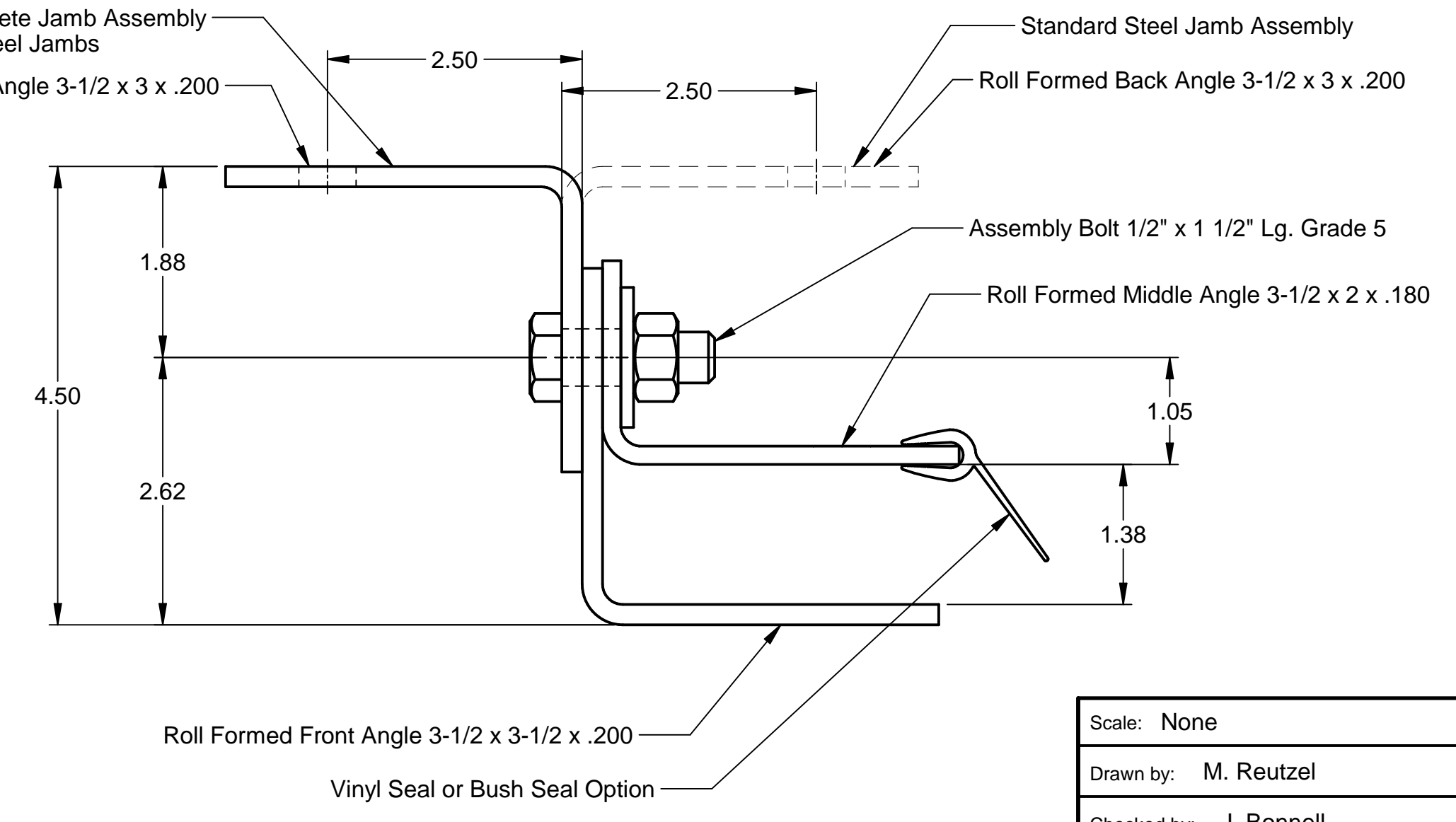
Guide Ass'y #90



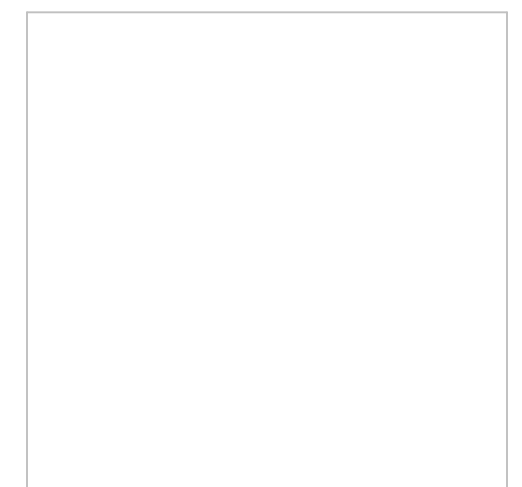
Guide Ass'y #93



Guide Ass'y #91



Guide Ass'y #94



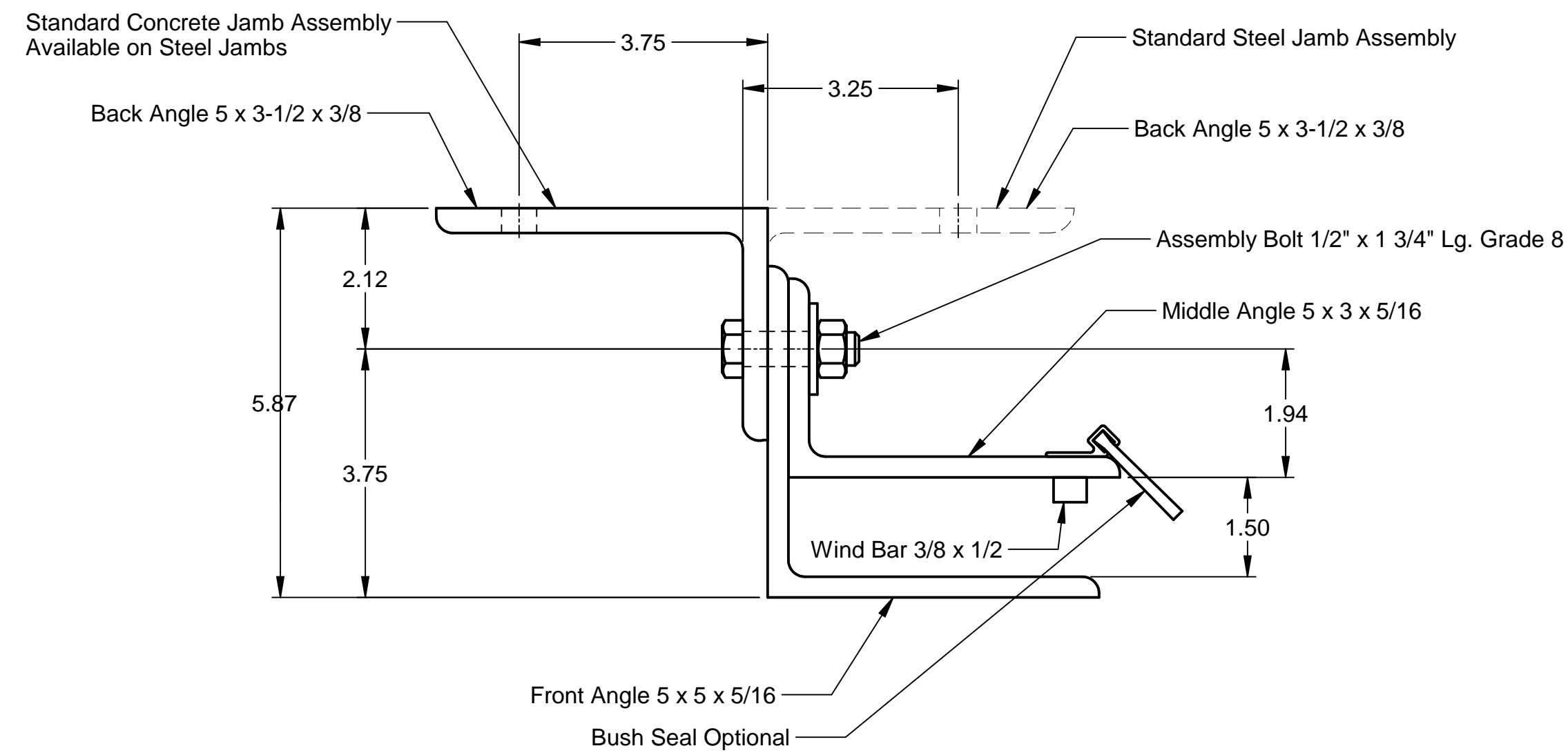
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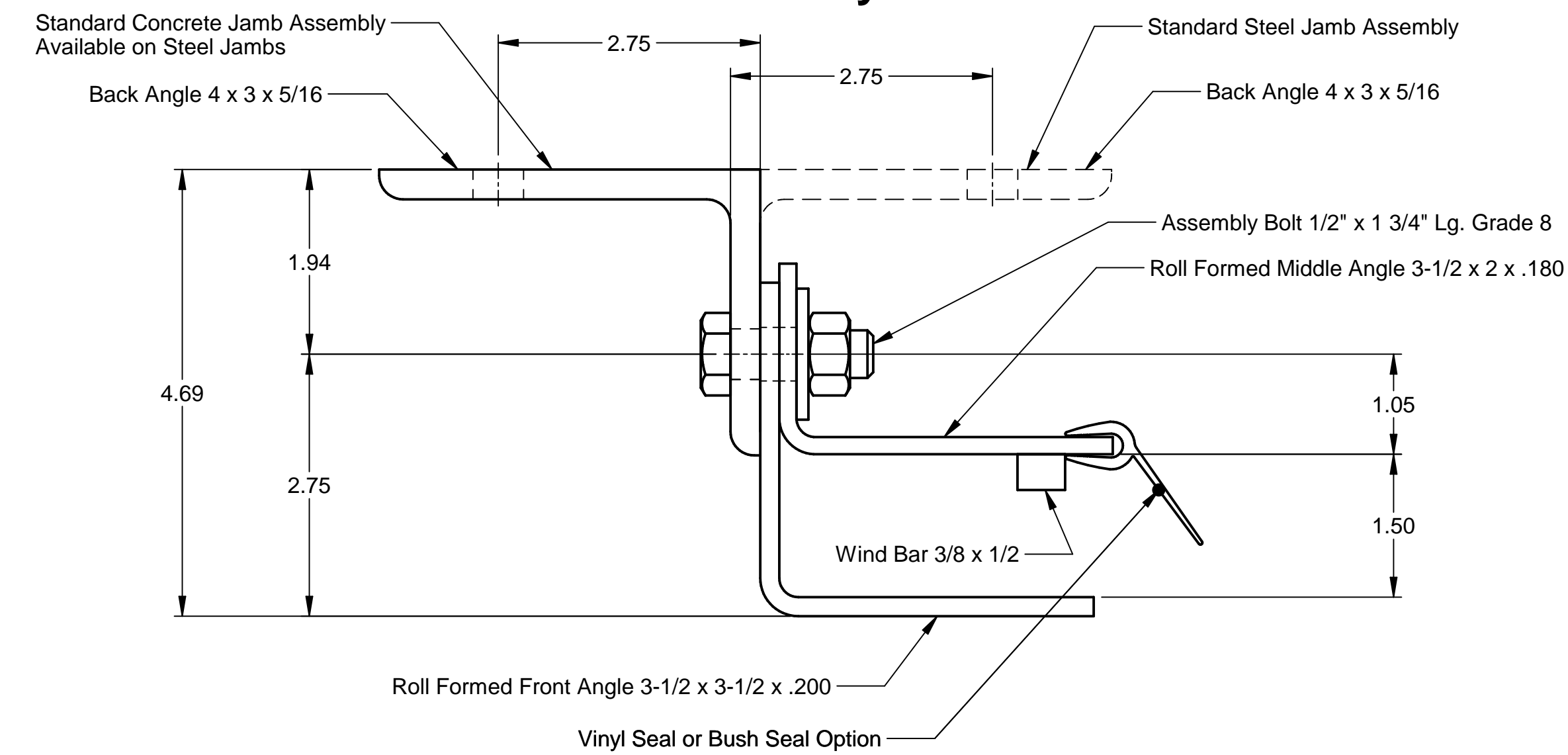
Scale: None
Drawn by: M. Reutzel
Checked by: J. Bonnell
Date: 07/21/16
ECO: 7415.01

RAYNOR
 1101 East River Road
 Dixon, IL 61021

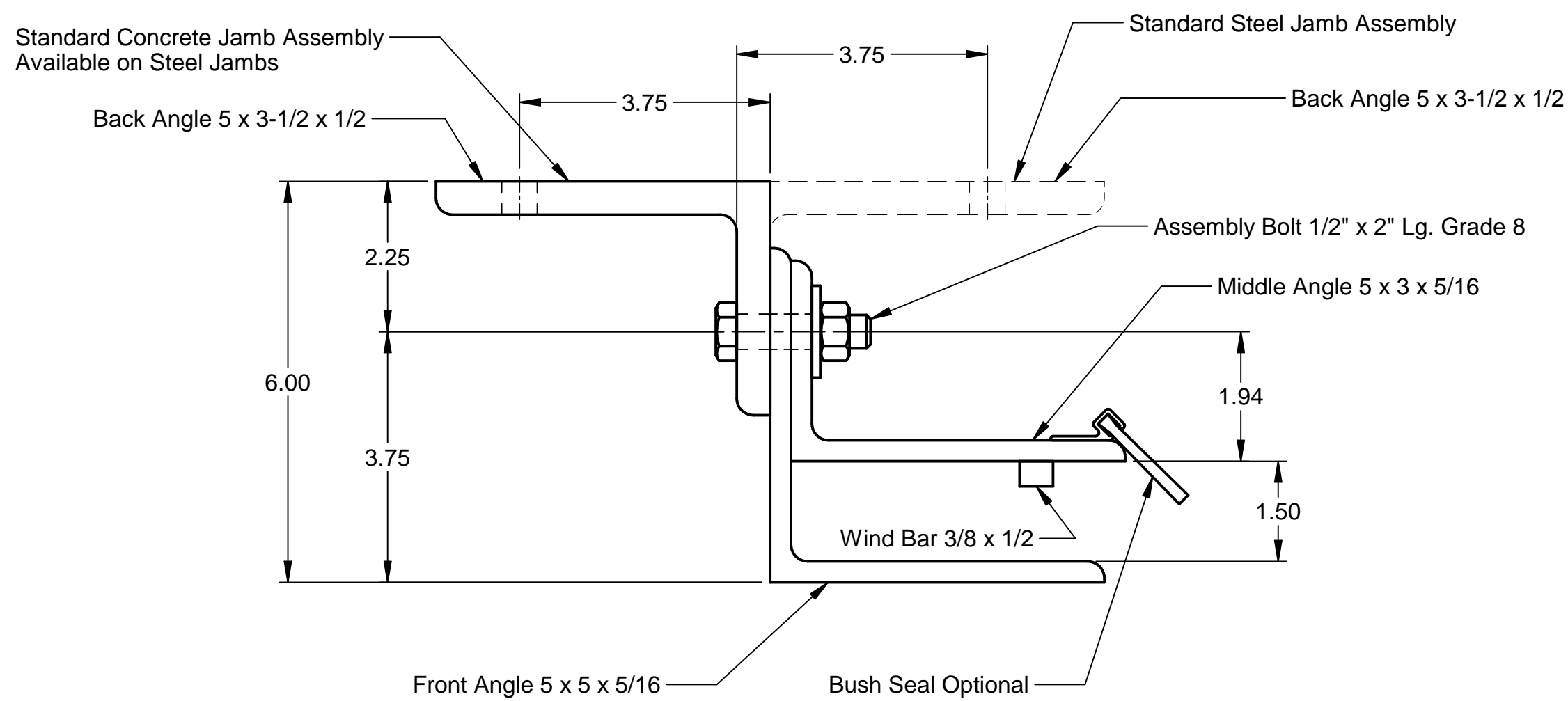
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No. P-2262	Rev C
Sheet 4	



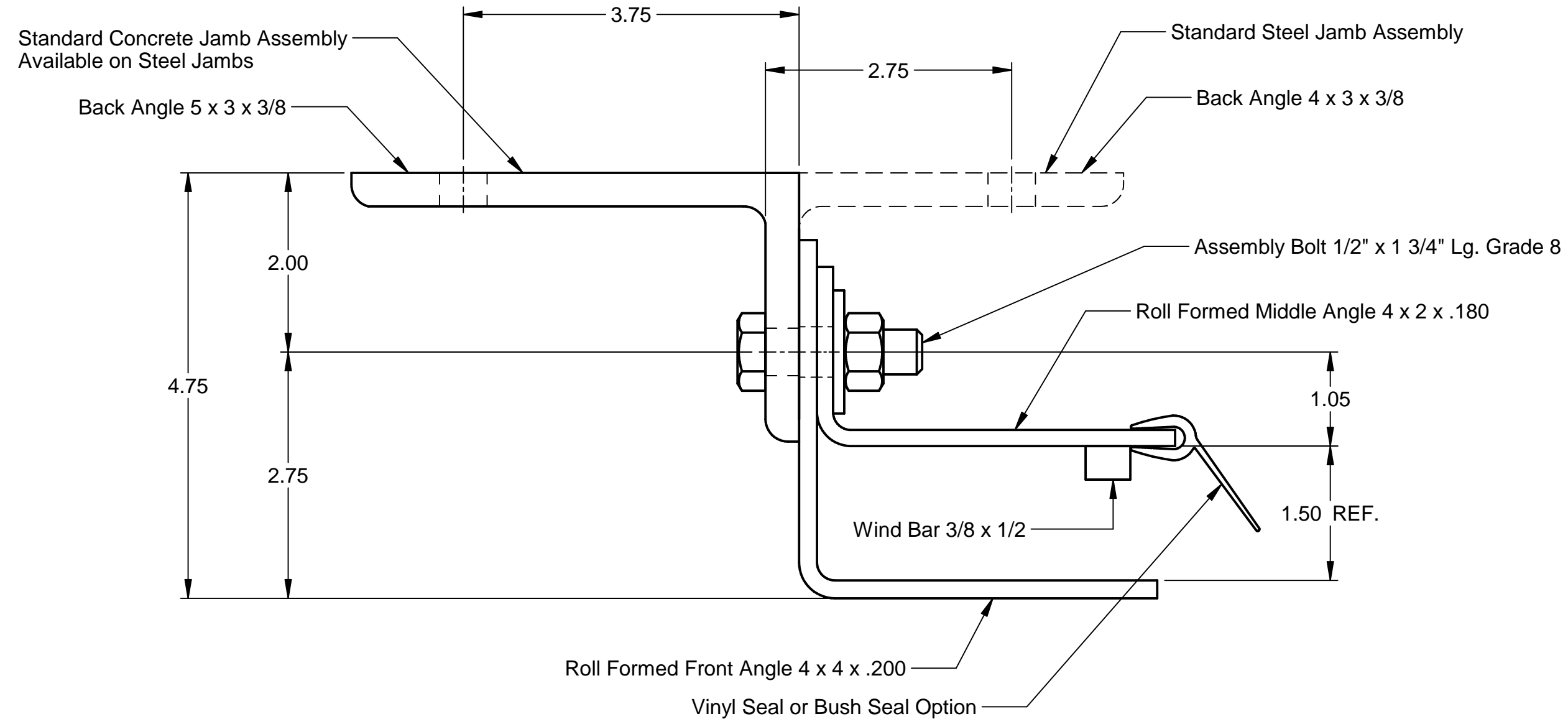
Guide Ass'y #104



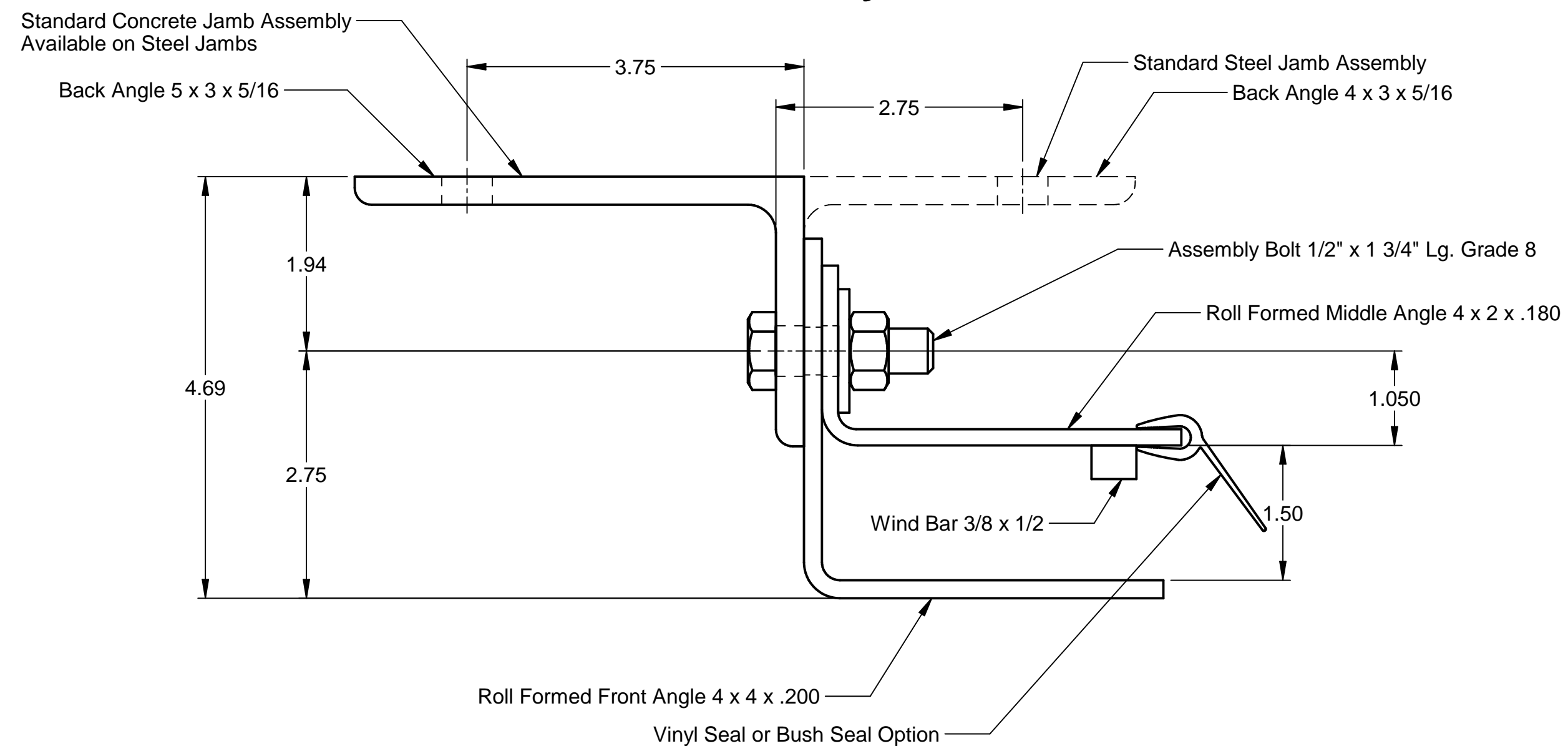
Guide Ass'y #105



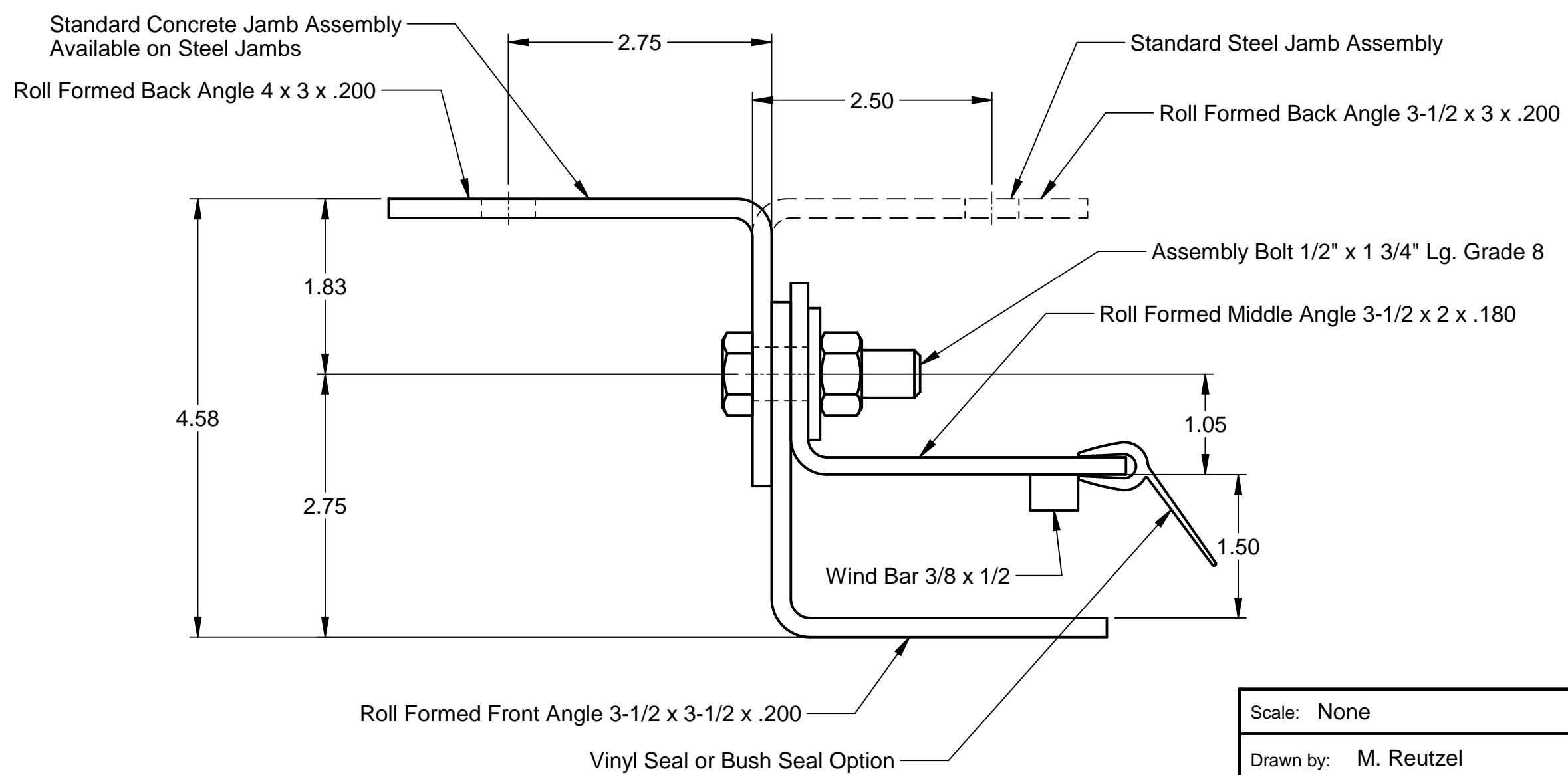
Guide Ass'y #106



Guide Ass'y #107



Guide Ass'y #110



Guide Ass'y #111



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Scale: None
Drawn by: M. Reutzel
Checked by: J. Bonnell
Date: 07/21/16
ECO: 7415.01



1101 East River Road
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Title: Specifications, Wind Load Doors for Texas Approvals		
No. P-2262	Sheet 5	Rev C

DuraCoil - Insulated Flat Slat 24 Ga.

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

DuraCoil - Standard (Insulated Flat Slat 24 Ga.)												
20 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
16 - 30	20'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	22"	24"	385	200

25 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
16 - 30	19'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	19"	21"	471	238
18 - 30	20'		105			1.000	2.125		16"	17"	609	250

30 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
16 - 30	17'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	20"	22"	346	255
18 - 30	20'		105			1.000	2.125	22"	12"	14"	832	300

35 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
16 - 30	16'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	19"	21"	324	280
18 - 30	20'		110	D.R. - 3.75		1.125	2.625	22"	14"	16"	966	350

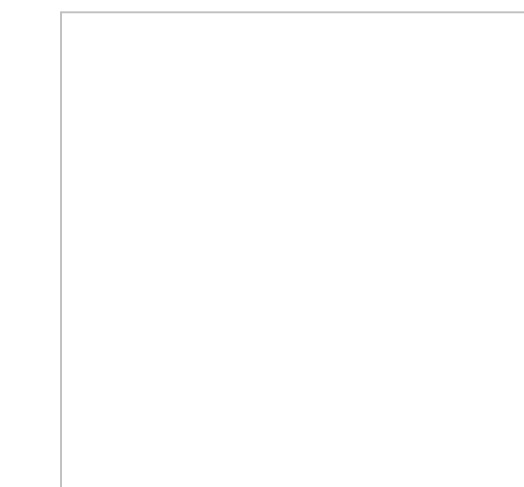
40 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
16 - 30	14'	Wind Bar	111	D.R. - 3.00	2nd	0.75	1.875	24"	22"	24"	170	280
18 - 30	18'		110	D.R. - 3.75		1.125	2.625	24"	15"	17"	811	360
	20'		104	D.R. - 4.25		1.875	3.625	19"	12"	13"	797	400

45 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
16 - 30	14'	Wind Bar	111	D.R. - 3.00	2nd	0.812	1.937	24"	19"	20"	268	315
18 - 30	17'		110	D.R. - 3.75		1.125	2.625	23"	15"	17"	782	383
	20'		104	D.R. - 4.25		2.062	3.812	17"	N/A	11"	892	450

50 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
16 - 30	12'	Wind Bar	111	D.R. - 3.00	2nd	0.500	1.625	24"	22"	24"	55	300
18 - 30	16'		110	D.R. - 3.75		1.125	2.625	23"	15"	17"	713	400


55 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
16 - 30	11'	Wind Bar	111	D.R. - 3.00	2nd	0.375	1.500	24"	23"	24"	0	303
18 - 30	15'		110	D.R. - 3.75		1.000	2.500	23"	15"	17"	692	413
	16'		104	D.R. - 4.25		1.437	3.187	16"	N/A	11"	672	440

60 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
18 - 30	15'	Wind Bar	110	D.R. - 3.75	2nd	0.812	2.312	23"	15"	16"	1029	450
	16'		104	D.R. - 4.25		1.218	2.968	16"	N/A	11"	944	480



John E. Scates
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Lewisville, TX 75056
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Scale: None	 <p>1101 East River Road Dixon, IL 61021</p>	Title: Specifications, Wind Load Doors for Texas Approvals	
Drawn by: M. Reutzel		No. P-2262	Sheet 6
Checked by: J. Bonnell			Rev C
Date: 07/21/16			
ECO: 7415.01			

DuraCoil - Insulated Flat Slat 22 Ga.

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

20 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	17'-3"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	18"	19"	0	173
18 - 22			93	D.R. - 2.25				24"	18"	19"		
24 - 30			94	D.R. - 2.75				24"	18"	19"		
16 - 30	21'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	21"	23"	430	210
18 - 30	24'		105	D.R. - 3.00				24"	14"	15"		

25 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	15'-5"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	16"	17"	0	193
18 - 22			93	D.R. - 2.25				24"	16"	17"		
24 - 30			94	D.R. - 2.75				24"	16"	17"		
16 - 30	19'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	20"	22"	384	238
18 - 30	22'		105	D.R. - 3.00				24"	13"	14"		
18 - 30	24'		110	D.R. - 3.75		1.125	2.625	23"	15"	17"	978	300

30 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	14'-1"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	14"	16"	0	212
18 - 22			93	D.R. - 2.25				24"	14"	16"		
24 - 30			94	D.R. - 2.75				24"	14"	16"		
16 - 30	17'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	22"	24"	239	255
18 - 30	20'		105	D.R. - 3.00				24"	19"	13"		
18 - 30	24'		107	D.R. - 3.75		1.125	2.625	19"	12"	13"	1255	360

35 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	13'-0"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	13"	15"	0	228
18 - 22			93	D.R. - 2.25				24"	13"	15"		
24 - 30			94	D.R. - 2.75				24"	13"	15"		
16 - 30	16'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	22"	24"	202	280
18 - 30	19'		105	D.R. - 3.00				24"	12"	13"		
18 - 30	22'		107	D.R. - 3.75		1.125	2.625	19"	12"	13"	1217	385
18 - 30	24'		104	D.R. - 4.25		2.062	3.812	16"	N/A	11"	1025	420

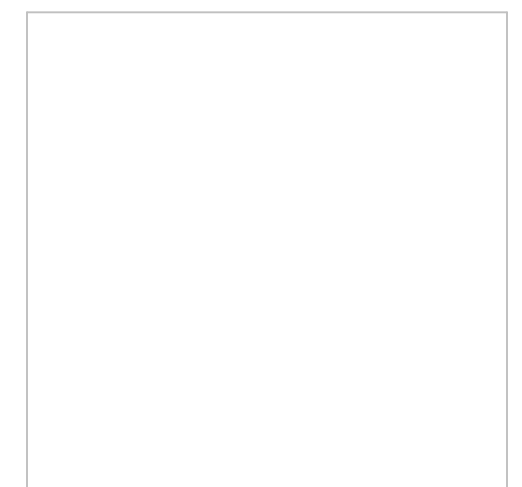
40 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	12'-2"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	14"	0	244
18 - 22			93	D.R. - 2.25				24"	12"	14"		
24 - 30			94	D.R. - 2.75				24"	12"	14"		
16 - 30	15'	Wind Bar	111	D.R. - 3.00	2nd	0.875	2.000	24"	20"	22"	198	300
18 - 30	18'		105	D.R. - 3.00				24"	11"	13"		
18 - 30	20'		107	D.R. - 3.75		1.125	2.625	19"	12"	13"	1099	400
18 - 30	22'		104	D.R. - 4.25		2.062	3.812	16"	N/A	11"	952	440
18 - 30	23'		106	D.R. - 4.25		1.875	3.625	14"	N/A	N/A	1167	460

45 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	9'-2"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	15"	16"	0	207
18 - 22			93	D.R. - 2.25				24"	15"	16"		
24 - 30			94	D.R. - 2.75				24"	15"	16"		
16 - 30	14'	Wind Bar	111	D.R. - 3.00	2nd	0.875	2.000	24"	22"	24"	61	315
18 - 30	17'		105	D.R. - 3.00				20"	11"	12"		
18 - 30	19'		107	D.R. - 3.75		1.125	2.625	19"	12"	13"	1106	428
18 - 30	20'		104	D.R. - 4.25		2.062	3.812	17"	11"	12"	814	450
18 - 30	22'		106	D.R. - 4.25		1.875	3.625	14"	N/A	N/A	1210	495

50 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	8'-9"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	219
18 - 22			93	D.R. - 2.25				24"	14"	15"		
24 - 30			94	D.R. - 2.75				24"	14"	15"		
16 - 30	13'	Wind Bar	111	D.R. - 3.00	2nd	0.750	1.875	24"	24"	24"	0	325
18 - 30	16'		105	D.R. - 3.00				21"	12"	13"		
18 - 30	18'		107	D.R. - 3.75		1.125	2.625	18"	12"	13"	1075	450
18 - 30	19'		104	D.R. - 4.25		2.062	3.812	17"	N/A	11"	791	475
18 - 30	21'		106	D.R. - 4.25		1.937	3.687	13"	N/A	N/A	1196	525


55 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	8'-4"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	13"	14"	0	230
18 - 22			93	D.R. - 2.25				24"	13"	14"		
24 - 30			94	D.R. - 2.75				24"	13"	14"		
16 - 30	13'	Wind Bar	111	D.R. - 3.00	2nd	0.750	1.875	24"	19"	21"	98	358
18 - 30	15'		105	D.R. - 3.00				22"	12"	14"		
18 - 30	17'		107	D.R. - 3.75		1.125	2.625	19"	12"	13"	1004	468
18 - 30	18'		104	D.R. - 4.25		2.062	3.812	17"	N/A	11"	737	495
18 - 30	20'		106	D.R. - 4.25		1.937	3.687	13"	N/A	N/A	1180	550

60 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Wind Bar Location	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	8'-0"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	13"	14"	0	240
18 - 22			93	D.R. - 2.25				24"	13"	14"		
24 - 30			94	D.R. - 2.75				24"	13"	14"		
16 - 30	12'	Wind Bar	111	D.R. - 3.00	2nd	0.562	1.687	24"	19"	21"	32	360
18 - 30	15'		105	D.R. - 3.00				24"	11"	12"		
18 - 30	16'		107	D.R. - 3.75		1.125	2.625	19"	12"	14"	893	480



John E. Scates
2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
FL PE #51737
TX PE #56308-f2203

Professional Engineer's seal provided only for verification of wind load construction details.

Scale: None	 <p>1101 East River Road Dixon, IL 61021</p>	Title: Specifications, Wind Load Doors for Texas Approvals	
Drawn by: M. Reutzel		No. P-2262	Sheet 7
Checked by: J. Bonnell			Rev C
Date: 07/21/16 ECO: 7415.01			

DuraCoil - Insulated Flat Slat 20 Ga.

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

20 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	17'-9"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	17"	19"	0	178		
18 - 22			93	D.R. - 2.25				24"	17"	19"				
24 - 30			94	D.R. - 2.75				24"	17"	19"				
16 - 30	22'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	19"	21"	495	220		
18 - 30	28'		110	D.R. - 3.75				1.125	2.625	23"	15"	16"	1065	280
	32'		107					1.125	2.625	17"	11"	12"	1453	320

25 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	15'-10"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	15"	17"	0	198		
18 - 22			93	D.R. - 2.25				24"	15"	17"				
24 - 30			94	D.R. - 2.75				24"	15"	17"				
16 - 30	19'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	21"	23"	316	238		
	22'		105					1.000	2.125	13"	15"	15"	753	275
18 - 30	25'		110	D.R. - 3.75				1.125	2.625	22"	14"	15"	1057	313
	29'		107			1.125	2.625	16"	N/A	11"	1532	363		
	34'		106	D.R. - 4.25		1.937	3.687	12"	N/A	N/A	1556	425		

30 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	14'-6"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	218		
18 - 22			93	D.R. - 2.25				24"	14"	15"				
24 - 30			94	D.R. - 2.75				24"	14"	15"				
16 - 30	18'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	19"	21"	344	270		
	21'		105					1.000	2.125	21"	12"	13"	854	315
18 - 30	24'		107	D.R. - 3.75				1.125	2.625	19"	12"	13"	1212	360
	26'		104			2.062	3.812	17"	N/A	11"	1001	390		
	31'		106	D.R. - 4.25		1.937	3.687	12"	N/A	N/A	1590	465		

35 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	13'-5"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	13"	14"	0	235		
18 - 22			93	D.R. - 2.25				24"	13"	14"				
24 - 30			94	D.R. - 2.75				24"	13"	14"				
16 - 30	16'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	24"	24"	105	280		
	19'		105					1.000	2.125	22"	12"	14"	730	333
18 - 30	22'		107	D.R. - 3.75				1.125	2.625	19"	12"	13"	1166	385
	24'		104			2.062	3.812	16"	N/A	11"	982	420		
	28'		106	D.R. - 4.25		1.937	3.687	12"	N/A	N/A	1532	490		

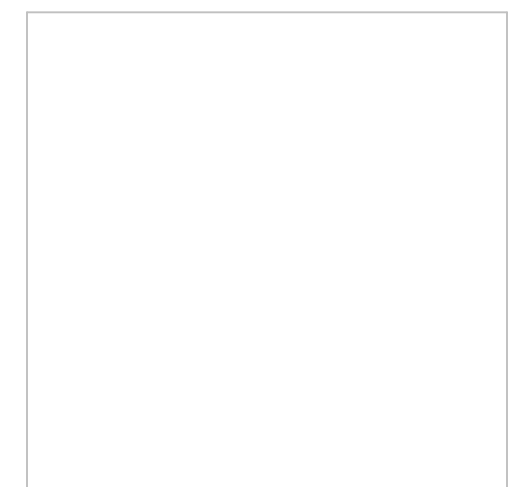
40 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	12'-6"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	13"	0	250		
18 - 22			93	D.R. - 2.25				24"	12"	13"				
24 - 30			94	D.R. - 2.75				24"	12"	13"				
16 - 30	15'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	24"	24"	7	300		
	18'		105					1.000	2.125	21"	12"	13"	725	360
18 - 30	20'		107	D.R. - 3.75				1.125	2.625	20"	13"	14"	1037	400
	22'		104			2.062	3.812	16"	N/A	11"	900	440		
	26'		106	D.R. - 4.25		1.937	3.687	12"	N/A	N/A	1521	520		

45 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	10'-10"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	14"	0	244		
18 - 22			93	D.R. - 2.25				24"	12"	14"				
24 - 30			94	D.R. - 2.75				24"	12"	14"				
16 - 30	15'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	19"	21"	152	338		
	17'		105					1.000	2.125	21"	12"	13"	678	383
18 - 30	19'		107	D.R. - 3.75				1.125	2.625	19"	12"	13"	1037	428
	20'		104			2.062	3.812	18"	N/A	12"	752	450		
	24'		106	D.R. - 4.25		1.937	3.687	12"	N/A	N/A	1450	540		

50 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	10'-3"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	13"	0	257		
18 - 22			93	D.R. - 2.25				24"	12"	13"				
24 - 30			94	D.R. - 2.75				24"	12"	13"				
16 - 30	14'	Wind Bar	111	D.R. - 3.00	2nd	0.937	2.062	24"	21"	23"	27	350		
	16'		105					1.000	2.125	22"	12"	13"	585	400
18 - 30	18'		107	D.R. - 3.75				1.125	2.625	19"	12"	13"	998	450
	19'		104			2.062	3.812	17"	11"	12"	722	475		
	23'		106	D.R. - 4.25		1.937	3.687	11"	N/A	N/A	1490	575		

55 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	9'-4"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	13"	0	257		
18 - 22			93	D.R. - 2.25				24"	12"	13"				
24 - 30			94	D.R. - 2.75				24"	12"	13"				
16 - 30	13'	Wind Bar	111	D.R. - 3.00	2nd	0.750	1.875	24"	22"	23"	0	358		
	15'		105					1.000	2.125	23"	13"	13"	443	413
18 - 30	17'		107	D.R. - 3.75				1.125	2.625	19"	12"	13"	918	468
	18'		104			2.062	3.812	17"	11"	12"	661	495		
	20'		106	D.R. - 4.25		1.937	3.687	12"	N/A	N/A	1118	550		

60 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	8'-7"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	13"	0	258		
18 - 22			93	D.R. - 2.25				24"	12"	13"				
24 - 30			94	D.R. - 2.75				24"	12"	13"				
16 - 30	12'	Wind Bar	111	D.R. - 3.00	2nd	0.562	1.687	24"	22"	24"	0	360		
	14'		105					0.937	2.062	24"	14"	16"	298	420
18 - 30	16'		107	D.R. - 3.75				1.125	2.625	20"	13"	14"	795	480



John E. Scates
2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
FL PE #51737
TX PE #56308-12203

Professional Engineer's seal provided only for verification of wind load construction details.

Scale: None
Drawn by: M. Reutzel
Checked by: J. Bonnell
Date: 07/21/16
ECO: 7415.01



1101 East River Road
Dixon, IL 61021

Title: Specifications, Wind Load Doors for Texas Approvals		
No. P-2262	Sheet 8	Rev C

DuraCoil - Insulated Flat Slat 18 Ga.

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

20 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	18'-5"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	17"	18"	0	184		
18 - 22			93	D.R. - 2.25				24"	17"	18"				
24 - 30			94	D.R. - 2.75				24"	17"	18"				
16 - 30	22'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	20"	22"	411	220		
18 - 30	29'		110	D.R. - 3.75				1.125	2.625	22"	14"	15"	1115	290
	31'		107					1.125	2.625	18"	12"	13"	1314	310
	34'		104					2.062	3.812	17"	N/A	11"	1121	340
	40'		106					1.937	3.687	12"	N/A	N/A	1630	400

25 PSF DESIGN LOAD													
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
12 - 16	16'-6"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	15"	16"	0	207	
18 - 22			93	D.R. - 2.25				24"	15"	16"			
24 - 30			94	D.R. - 2.75				24"	15"	16"			
16 - 30	20'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	19"	21"	366	250	
18 - 30	22'		105	1.000				2.125	14"	15"	669	275	
	25'		110	1.125				2.625	23"	15"	16"	992	313
	27'		107	1.125				2.625	19"	12"	13"	1241	338
	30'		104	2.062				3.812	16"	N/A	11"	1096	375
	35'	106	1.937	3.687	12"	N/A	N/A	1614	438				

30 PSF DESIGN LOAD													
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
12 - 16	15'-1"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	13"	15"	0	227	
18 - 22			93	D.R. - 2.25				24"	13"	15"			
24 - 30			94	D.R. - 2.75				24"	13"	15"			
16 - 30	18'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	21"	23"	217	270	
18 - 30	21'		105	1.000				2.125	22"	12"	14"	762	315
	24'		107	1.125				2.625	20"	12"	14"	1141	360
	26'		104	2.062				3.812	17"	N/A	11"	940	390
	33'		106	1.937				3.687	11"	N/A	N/A	1767	495

35 PSF DESIGN LOAD													
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
12 - 16	13'-11"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	14"	0	244	
18 - 22			93	D.R. - 2.25				24"	12"	14"			
24 - 30			94	D.R. - 2.75				24"	12"	14"			
16 - 30	17'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	20"	22"	186	298	
18 - 30	19'		105	1.000				2.125	24"	13"	14"	616	333
	22'		107	1.125				2.625	20"	12"	14"	1081	385
	24'		104	2.062				3.812	17"	N/A	11"	911	420
	30'		106	1.937				3.687	11"	N/A	N/A	1732	525

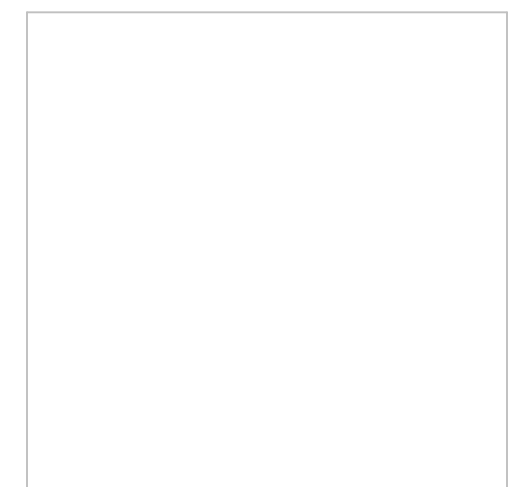
40 PSF DESIGN LOAD													
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
12 - 16	12'-11"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	13"	0	259	
18 - 22			93	D.R. - 2.25				24"	12"	13"			
24 - 30			94	D.R. - 2.75				24"	12"	13"			
16 - 30	16'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	21"	23"	105	320	
18 - 30	18'		105	1.000				2.125	23"	13"	14"	599	360
	21'		107	1.125				2.625	18"	12"	13"	1133	420
	22'		104	2.062				3.812	17"	11"	12"	816	440
	27'		106	1.937				3.687	11"	N/A	N/A	1604	540

45 PSF DESIGN LOAD													
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
12 - 16	11'-6"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	13"	0	259	
18 - 22			93	D.R. - 2.25				24"	12"	13"			
24 - 30			94	D.R. - 2.75				24"	12"	13"			
16 - 30	15'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	23"	24"	0	338	
18 - 30	17'		105	1.000				2.125	23"	13"	14"	537	383
	19'		107	1.125				2.625	20"	13"	14"	924	428
	21'		104	2.062				3.812	16"	N/A	11"	826	473
	25'		106	1.937				3.687	11"	N/A	N/A	1540	563

50 PSF DESIGN LOAD													
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
12 - 16	10'-4"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	13"	0	259	
18 - 22			93	D.R. - 2.25				24"	12"	13"			
24 - 30			94	D.R. - 2.75				24"	12"	13"			
16 - 30	14'	Wind Bar	111	D.R. - 3.00	2nd	0.937	2.062	24"	24"	24"	0	350	
18 - 30	16'		105	1.000				2.125	23"	13"	15"	425	400
	18'		107	1.125				2.625	20"	13"	14"	872	450
	20'		104	2.062				3.812	16"	N/A	11"	805	500
	24'		106	1.937				3.687	11"	N/A	N/A	1590	600


55 PSF DESIGN LOAD													
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
12 - 16	9'-4"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	13"	0	257	
18 - 22			93	D.R. - 2.25				24"	12"	13"			
24 - 30			94	D.R. - 2.75				24"	12"	13"			
16 - 30	14'	Wind Bar	111	D.R. - 3.00	2nd	0.937	2.062	24"	20"	22"	0	385	
18 - 30	15'		105	1.000				2.125	24"	15"	16"	261	413
	17'		107	1.125				2.625	20"	13"	14"	777	468
	19'		104	2.062				3.812	16"	N/A	11"	753	523
	20'		106	1.937				3.687	11"	N/A	N/A	1016	550

60 PSF DESIGN LOAD													
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Wind Bar Location	Slip	Wind Bar Location	Bolt Spacing Steel Jambs	Bolt Spacing Concrete Jambs 3000 PSI	Bolt Spacing Concrete Jambs 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.	
12 - 16	8'-7"	Std.	92	D.R. - 2.00	N/A	N/A	N/A	24"	12"	13"	0	258	
18 - 22			93	D.R. - 2.25				24"	12"	13"			
24 - 30			94	D.R. - 2.75				24"	12"	13"			
16 - 30	13'	Wind Bar	111	D.R. - 3.00	2nd	0.750	1.875	24"	22"	24"	0	390	
18 - 30	15'		105	1.000				2.125	22"	13"	14"	406	450
	16'		107	1.125				2.625	21"	14"	15"	636	480



John E. Scates
2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
FL PE #51737
TX PE #56308-f2203

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Scale: None		Title: Specifications, Wind Load Doors for Texas Approvals	
Drawn by: M. Reutzel		No. P-2262	Sheet 9
Checked by: J. Bonnell			Rev C
Date: 07/21/16 ECO: 7415.01		1101 East River Road Dixon, IL 61021	

DuraCoil - Flat Slat 22 Ga.

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

20 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jams	Bolt Spacing Concrete Jams 3000 PSI	Bolt Spacing Concrete Jams 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	14'-7"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	21"	23"	0	146
18 - 22			90	D.R. - 2.25				24"	21"	23"		
24 - 30			91	D.R. - 2.75				24"	18"	20"		
16 - 30	20'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	18"	20"	625	200
18 - 30	22'		105						15"	16"	809	220

25 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jams	Bolt Spacing Concrete Jams 3000 PSI	Bolt Spacing Concrete Jams 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	13'-0"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	19"	21"	0	163
18 - 22			90	D.R. - 2.25				24"	19"	21"		
24 - 30			91	D.R. - 2.75				24"	16"	18"		
16 - 30	17'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	20"	22"	504	213
18 - 30	20'		105						14"	15"	849	250
	22'		110						16"	17"	994	275

30 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jams	Bolt Spacing Concrete Jams 3000 PSI	Bolt Spacing Concrete Jams 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	9'-10"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	21"	23"	0	148
18 - 22			90	D.R. - 2.25				24"	21"	23"		
24 - 30			91	D.R. - 2.75				24"	18"	19"		
16 - 30	14'	Wind Bar	111	D.R. - 3.00	2nd	0.625	1.750	24"	21"	23"	444	210
18 - 30	18'		105						14"	15"	813	270
	22'		107						13"	14"	1237	330

35 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jams	Bolt Spacing Concrete Jams 3000 PSI	Bolt Spacing Concrete Jams 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	9'-1"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	19"	21"	0	159
18 - 22			90	D.R. - 2.25				24"	19"	21"		
24 - 30			91	D.R. - 2.75				24"	16"	18"		
16 - 30	12'	Wind Bar	111	D.R. - 3.00	2nd	0.375	1.500	24"	20"	21"	440	210
18 - 30	16'		105			2.000	24"	14"	15"	777	280	
	20'		107			1.125	2.625	20"	13"	14"	1207	350
	22'		104			2.063	3.812	17"	N/A	11"	1035	385

40 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jams	Bolt Spacing Concrete Jams 3000 PSI	Bolt Spacing Concrete Jams 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	8'-6"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	18"	20"	0	170
18 - 22			90	D.R. - 2.25				24"	18"	20"		
24 - 30			91	D.R. - 2.75				24"	15"	17"		
18 - 30	16'	Wind Bar	105	D.R. - 3.00	2nd	0.937	2.063	22"	12"	13"	902	320
	18'		107			1.125	2.625	21"	13"	15"	1108	360
	20'		104			1.875	3.625	17"	N/A	11"	1037	400
	22'		106			1.937	3.687	14"	N/A	N/A	1260	440

45 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jams	Bolt Spacing Concrete Jams 3000 PSI	Bolt Spacing Concrete Jams 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	8'-0"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	17"	19"	0	180
18 - 22			90	D.R. - 2.25				24"	17"	19"		
24 - 30			91	D.R. - 2.75				24"	14"	16"		
18 - 30	13'	Wind Bar	105	D.R. - 3.00	2nd	0.500	1.625	23"	12"	13"	854	293
	16'		107			2.437	21"	14"	15"	1067	360	
	18'		104			1.375	3.125	16"	N/A	11"	1133	405
	20'		106			1.937	3.687	14"	N/A	N/A	1177	450

50 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jams	Bolt Spacing Concrete Jams 3000 PSI	Bolt Spacing Concrete Jams 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	7'-7"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	16"	18"	0	190
18 - 22			90	D.R. - 2.25				24"	16"	18"		
24 - 30			91	D.R. - 2.75				24"	14"	15"		
18 - 30	14'	Wind Bar	107	D.R. - 3.75	2nd	0.625	2.125	21"	13"	14"	1107	350
	16'		106			1.125	2.875	15"	N/A	N/A	1088	400



John E. Scates
2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
FL PE #51737
TX PE #56308-f2203

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Scale: None	<p>1101 East River Road Dixon, IL 61021</p>	Title: Specifications, Wind Load Doors for Texas Approvals	
Drawn by: M. Reutzel		No. P-2262	Sheet 10
Checked by: J. Bonnell			Rev C
Date: 07/21/16 ECO: 7415.01			

DuraCoil - Flat Slat 20 Ga.

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

20 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	16'-0"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	19"	21"	0	160		
18 - 22			90	D.R. - 2.25				24"	19"	21"				
24 - 30			91	D.R. - 2.75				24"	16"	18"				
16 - 30	20'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	19"	21"	574	200		
18 - 30	23'		105	D.R. - 3.00				1.000	2.125	24"	14"	15"	861	230
	27'		110	D.R. - 3.75				1.125	2.625	22"	14"	15"	1147	270
	30'		107	D.R. - 3.75				1.125	2.625	18"	11"	12"	1407	300

25 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	14'-3"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	17"	19"	0	179		
18 - 22			90	D.R. - 2.25				24"	17"	19"				
24 - 30			91	D.R. - 2.75				24"	15"	16"				
16 - 30	18'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	18"	20"	559	225		
18 - 30	20'		105	D.R. - 3.00				1.000	2.125	24"	14"	15"	798	250
	24'		110	D.R. - 3.75				1.125	2.625	22"	13"	14"	1163	300
	27'		107	D.R. - 3.75				1.125	2.625	17"	10"	11"	1478	338
	30'	106	D.R. - 4.25	1.875	3.625	15"	N/A	N/A	1358	375				

30 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	13'-0"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	16"	17"	0	195		
18 - 22			90	D.R. - 2.25				24"	16"	17"				
24 - 30			91	D.R. - 2.75				24"	13"	15"				
16 - 30	16'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	19"	21"	460	240		
18 - 30	19'		105	D.R. - 3.00				1.000	2.125	23"	12"	14"	888	285
	21'		110	D.R. - 3.75				1.125	2.625	22"	14"	16"	1071	315
	23'		107	D.R. - 3.75				1.125	2.625	19"	12"	13"	1318	345
	25'	104	D.R. - 4.25	2.062	3.812	16"	N/A	11"	1101	375				
	30'	106	D.R. - 4.25	1.937	3.687	12"	N/A	N/A	1629	450				

35 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	12'-1"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	16"	0	212		
18 - 22			90	D.R. - 2.25				24"	14"	16"				
24 - 30			91	D.R. - 2.75				24"	12"	13"				
18 - 30	17'	Wind Bar	105	D.R. - 3.00	2nd	1.000	2.125	24"	13"	14"	784	298		
	19'		110	D.R. - 3.75				1.125	2.625	23"	15"	16"	1012	333
	21'		107	D.R. - 3.75				1.125	2.625	19"	12"	13"	1297	368
	23'		104	D.R. - 4.25				2.062	3.812	16"	N/A	11"	1102	403
	27'		106	D.R. - 4.25				1.937	3.687	12"	N/A	N/A	1588	473

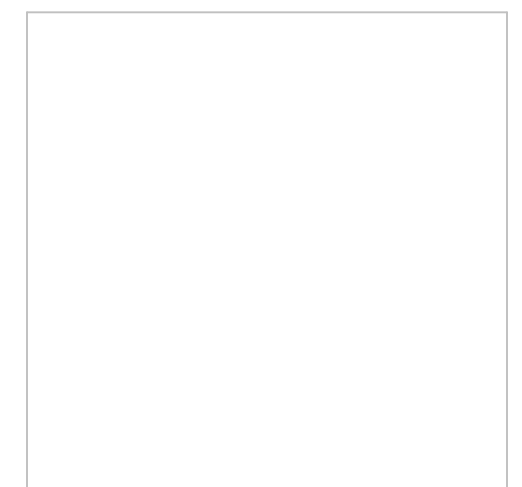
40 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	9'-10"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	15"	17"	0	197		
18 - 22			90	D.R. - 2.25				24"	15"	17"				
24 - 30			91	D.R. - 2.75				24"	13"	14"				
18 - 30	16'	Wind Bar	105	D.R. - 3.00	2nd	1.000	2.125	23"	13"	14"	780	320		
	19'		107	D.R. - 3.75				1.125	2.625	19"	12"	13"	1207	380
	21'		104	D.R. - 4.25				2.062	3.812	16"	N/A	11"	1050	420
	25'		106	D.R. - 4.25				1.937	3.687	12"	N/A	N/A	1591	500

45 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	9'-3"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	15"	16"	0	209		
18 - 22			90	D.R. - 2.25				24"	15"	16"				
24 - 30			91	D.R. - 2.75				24"	12"	14"				
18 - 30	14'	Wind Bar	105	D.R. - 3.00	2nd	0.625	1.750	22"	12"	13"	837	315		
	18'		107	D.R. - 3.75				1.125	2.625	19"	12"	13"	1225	405
	23'		106	D.R. - 4.25				1.937	3.687	12"	N/A	N/A	1541	518

50 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	8'-10"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	221		
18 - 22			90	D.R. - 2.25				24"	14"	15"				
24 - 30			91	D.R. - 2.75				24"	12"	13"				
18 - 30	12'	Wind Bar	105	D.R. - 3.00	2nd	0.375	1.500	22"	12"	13"	808	300		
	17'		107	D.R. - 3.75				1.125	2.625	18"	12"	13"	1209	425
	21'		106	D.R. - 4.25				1.937	3.687	12"	N/A	N/A	1438	525


55 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	8'-0"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	220		
18 - 22			90	D.R. - 2.25				24"	14"	15"				
24 - 30			91	D.R. - 2.75				24"	12"	13"				
18 - 30	15'	Wind Bar	107	D.R. - 3.75	2nd	0.812	2.312	19"	12"	13"	1204	413		
	20'		106	D.R. - 4.25				1.937	3.687	12"	N/A	N/A	1447	550

60 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	7'-4"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	220
18 - 22			90	D.R. - 2.25				24"	14"	15"		
24 - 30			91	D.R. - 2.75				24"	12"	13"		
18 - 30	14'	Wind Bar	107	D.R. - 3.75	2nd	0.687	2.187	18"	11"	12"	1243	420
	18'		106	D.R. - 4.25				1.437	3.187	12"	N/A	N/A



John E. Scates
2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
FL PE #51737
TX PE #56308-f2203

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Scale: None	 <p>1101 East River Road Dixon, IL 61021</p>	Title: Specifications, Wind Load Doors for Texas Approvals	
Drawn by: M. Reutzel		No. P-2262	Sheet 11
Checked by: J. Bonnell			Rev C
Date: 07/21/16 ECO: 7415.01			

DuraCoil - Flat Slat 18 Ga.

20 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	17'-3"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	18"	19"	0	173		
18 - 22			90	D.R. - 2.25				24"	18"	19"				
24 - 30			91	D.R. - 2.75				24"	15"	17"				
16 - 30	20'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	20"	22"	484	200		
	22'		105					1.000	2.125	16"	17"	693	220	
18 - 30	28'		110	D.R. - 3.75				1.125	2.625	21"	14"	15"	1188	280
	32'		107					1.125	2.625	16"	11"	12"	1547	320
	40'		106					1.875	3.625	12"	N/A	N/A	1745	400

25 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	15'-5"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	16"	17"	0	193		
18 - 22			90	D.R. - 2.25				24"	16"	17"				
24 - 30			91	D.R. - 2.75				24"	13"	15"				
16 - 30	18'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	20"	22"	448	225		
	22'		105					1.000	2.125	22"	12"	13"	951	275
18 - 30	24'		110	D.R. - 3.75				1.125	2.625	22"	14"	16"	1101	300
	28'		107					1.125	2.625	16"	11"	12"	1537	350
	35'		106					1.875	3.625	12"	N/A	N/A	1756	438

30 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	14'-1"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	16"	0	212		
18 - 22			90	D.R. - 2.25				24"	14"	16"				
24 - 30			91	D.R. - 2.75				24"	12"	13"				
16 - 30	16'	Wind Bar	111	D.R. - 3.00	2nd	1.000	2.125	24"	22"	24"	319	240		
	20'		105					1.000	2.125	21"	12"	13"	932	300
18 - 30	23'		107	D.R. - 3.75				1.125	2.625	20"	12"	13"	1250	345
	26'		104					2.062	3.812	16"	N/A	N/A	1142	390
	31'		106					1.937	3.687	12"	N/A	N/A	1690	465

35 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	12'-8"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	222		
18 - 22			90	D.R. - 2.25				24"	14"	15"				
24 - 30			91	D.R. - 2.75				24"	12"	13"				
16 - 30	15'	Wind Bar	111	D.R. - 3.00	2nd	0.875	2.000	24"	20"	22"	358	263		
	18'		105					1.000	2.125	22"	12"	13"	830	315
18 - 30	21'		107	D.R. - 3.75				1.125	2.625	19"	12"	13"	1216	368
	23'		104					2.062	3.812	16"	N/A	11"	1034	403
	28'		106					1.937	3.687	12"	N/A	N/A	1654	490

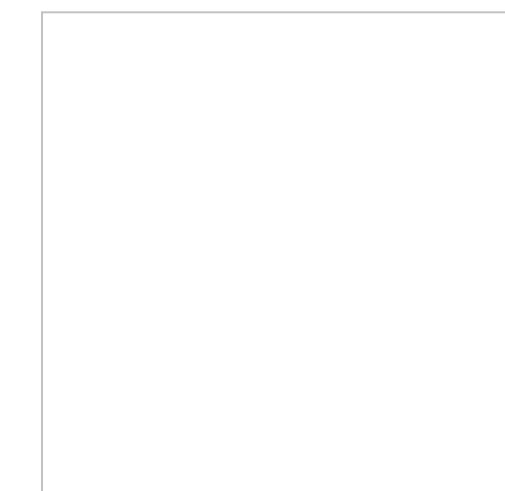
40 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	11'-1"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	222		
18 - 22			90	D.R. - 2.25				24"	14"	15"				
24 - 30			91	D.R. - 2.75				24"	12"	13"				
16 - 30	13'	Wind Bar	111	D.R. - 3.00	2nd	0.562	1.687	24"	20"	22"	280	260		
	17'		105					1.000	2.125	21"	12"	13"	834	340
18 - 30	19'		107	D.R. - 3.75				1.125	2.625	20"	13"	14"	1107	380
	21'		104					2.062	3.812	17"	N/A	11"	969	420
	25'		106					1.937	3.687	12"	N/A	N/A	1534	500

45 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	9'-10"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	222		
18 - 22			90	D.R. - 2.25				24"	14"	15"				
24 - 30			91	D.R. - 2.75				24"	12"	13"				
16 - 30	12'	Wind Bar	111	D.R. - 3.00	2nd	0.437	1.562	24"	19"	21"	276	270		
	16'		105					1.000	2.125	21"	12"	13"	799	360
18 - 30	18'		107	D.R. - 3.75				1.125	2.625	19"	12"	14"	1114	405
	20'		104					2.062	3.812	16"	N/A	11"	992	450
	23'		106					1.937	3.687	12"	N/A	N/A	1473	518

50 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	8'-10"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	221		
18 - 22			90	D.R. - 2.25				24"	14"	15"				
24 - 30			91	D.R. - 2.75				24"	12"	13"				
18 - 30	14'	Wind Bar	105	D.R. - 3.00	2nd	0.687	1.812	22"	12"	13"	743	350		
	17'		107					1.125	2.625	19"	12"	13"	1085	425
	22'		106	D.R. - 4.25				1.937	3.687	12"	N/A	N/A	1515	550


55 PSF DESIGN LOAD														
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.		
12 - 16	8'-0"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	220		
18 - 22			90	D.R. - 2.25				24"	14"	15"				
24 - 30			91	D.R. - 2.75				24"	12"	13"				
18 - 30	13'	Wind Bar	105	D.R. - 3.00	2nd	0.562	1.687	21"	12"	13"	749	358		
	16'		107					1.000	2.500	19"	12"	13"	1119	440
	20'		106	D.R. - 4.25				1.937	3.687	12"	N/A	N/A	1357	550

60 PSF DESIGN LOAD												
Headplate Size	Door Opening Width Including	Std./Wind Bar	Guide Ass'y No.	Slat Length	Windlock Frequency	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Bolt Spacing Concrete Jamb 3000 PSI	Bolt Spacing Concrete Jamb 4000 PSI	Guide Load FX Lbs./Ft.	Guide Load FY Lbs./Ft.
12 - 16	7'-4"	Std.	89	D.R. - 2.00	N/A	N/A	N/A	24"	14"	15"	0	220
18 - 22			90	D.R. - 2.25				24"	14"	15"		
24 - 30			91	D.R. - 2.75				24"	12"	13"		
18 - 30	15'	Wind Bar	107	D.R. - 3.75	2nd	0.875	2.375	18"	12"	13"	1134	450
	16'		106					1.875	3.625	12"	N/A	N/A



John E. Scates
2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
FL PE #51737
TX PE #56308-f2203

Professional Engineer's seal provided only for verification of wind load construction details.

Scale: None	 1101 East River Road Dixon, IL 61021	Title: Specifications, Wind Load Doors for Texas Approvals	
Drawn by: M. Reutzel		No. P-2262	Sheet 12
Checked by: J. Bonnell			Rev C
Date: 07/21/16 ECO: 7415.01			