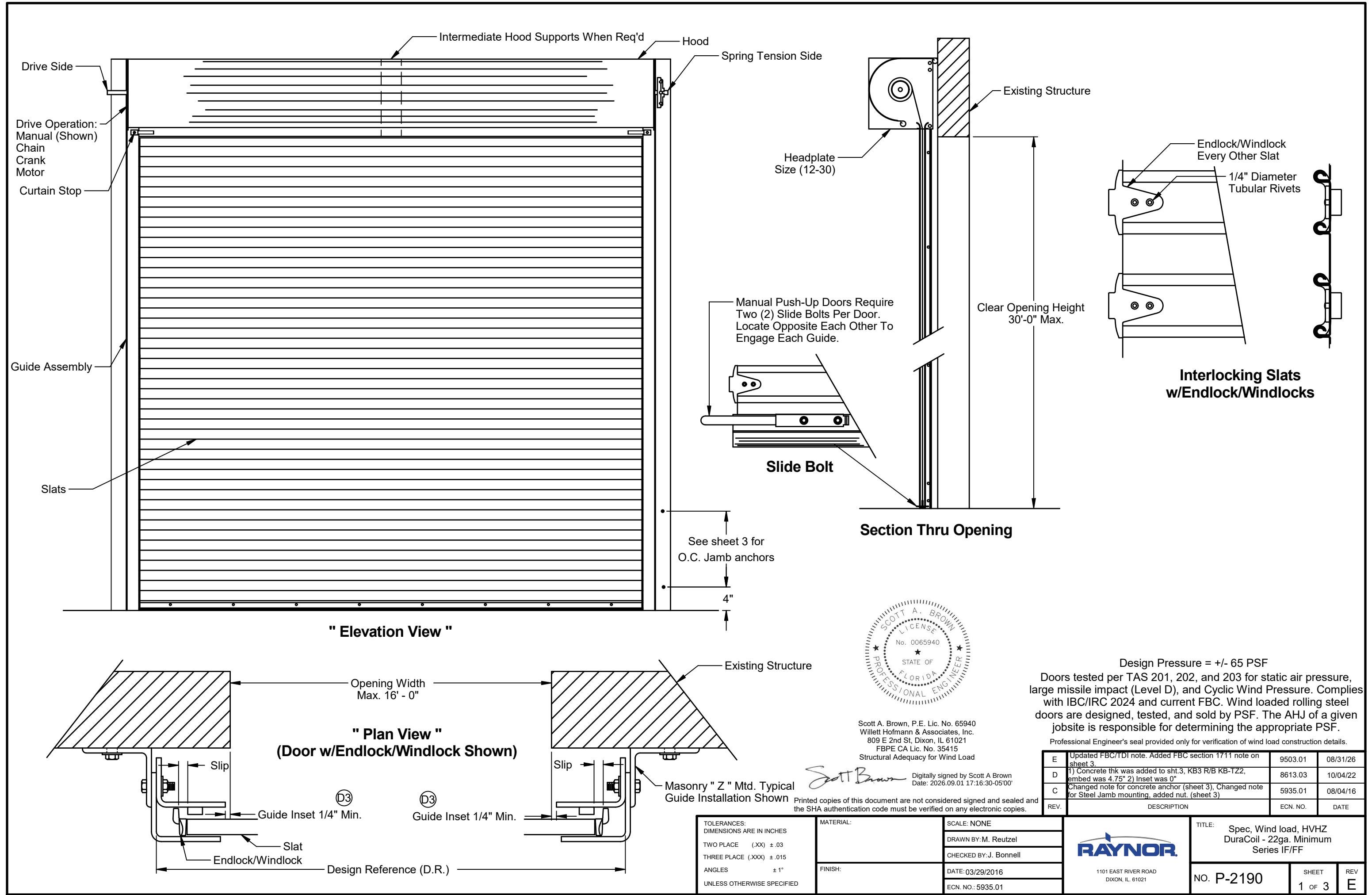
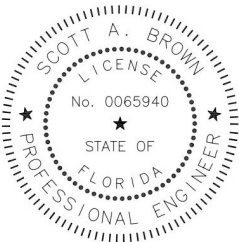




General Specifications

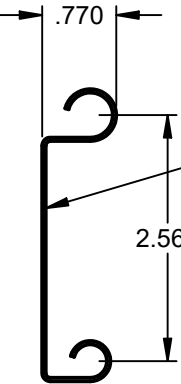
- 1) DOORS shall be rolling steel model DURACOIL (Standard Service Door) as manufactured by Raynor Garage Doors.
- 2) GUIDES - Structural steel angles, in accordance to ASTM A36 Steel, Min. 3/16" thick. Top of guide angles flared and provided with 4 removable curtain stops.
- 3) BRACKETS - Steel plates, 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 - 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.



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

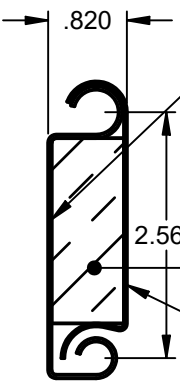
Scott A. Brown
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Flat Slat
" FF "

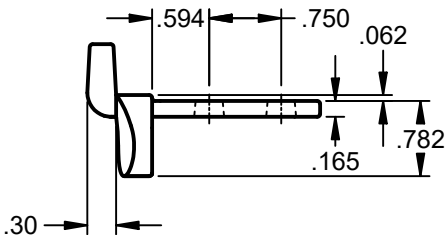
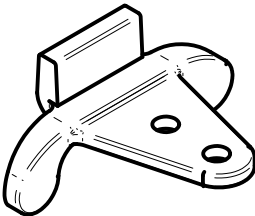
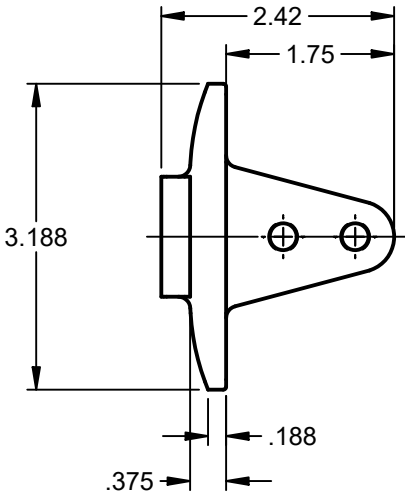
Steel:
22 Ga. (.026 Min Bare), 20 Ga. (.032 Min. Bare),
18 Ga. (.044 Min. Bare) - ASTM A653, Comm. Stl Type B,
Hot Dipped Galv. - G-90
Stainless Steel:
22 Ga (.026 Min Bare), 20 Ga. (.032 Min. Bare) - ASTM 240,
Type 304, #4 Finish



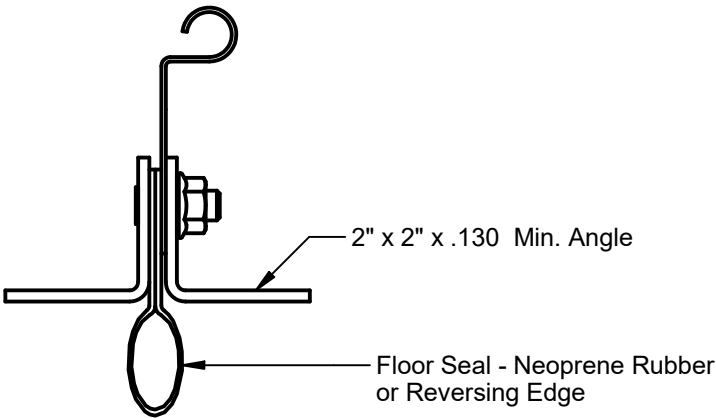
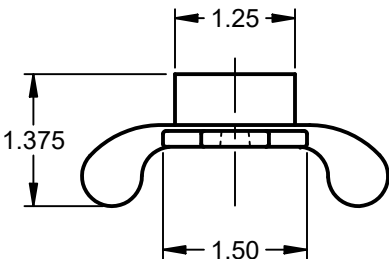
Insulated
Flat Slat
" IF "

Steel:
22 Ga. (.026 Min Bare), 20 Ga. (.032 Min. Bare),
18 Ga. (.044 Min. Bare) - ASTM A653,
Comm. Stl Type B, Hot Dipped Galv. - G-90
Stainless Steel:
22 Ga (.026 Min Bare), 20 Ga. (.032 Min. Bare) - ASTM 240,
Type 304, #4 Finish
Polyiso Foamboard Core 3/4" Thick
The Length of Each Slat
Steel:
24 Ga. (.021 Min. Bare) - ASTM A653, Comm. Stl Type B,
Hot Dipped Galv. - G-60.
Stainless Steel:
24 Ga (.021 Min Bare) - ASTM 240, Type 304, #4 Finish

Flat Slat and Insulated Flat Slat Profiles

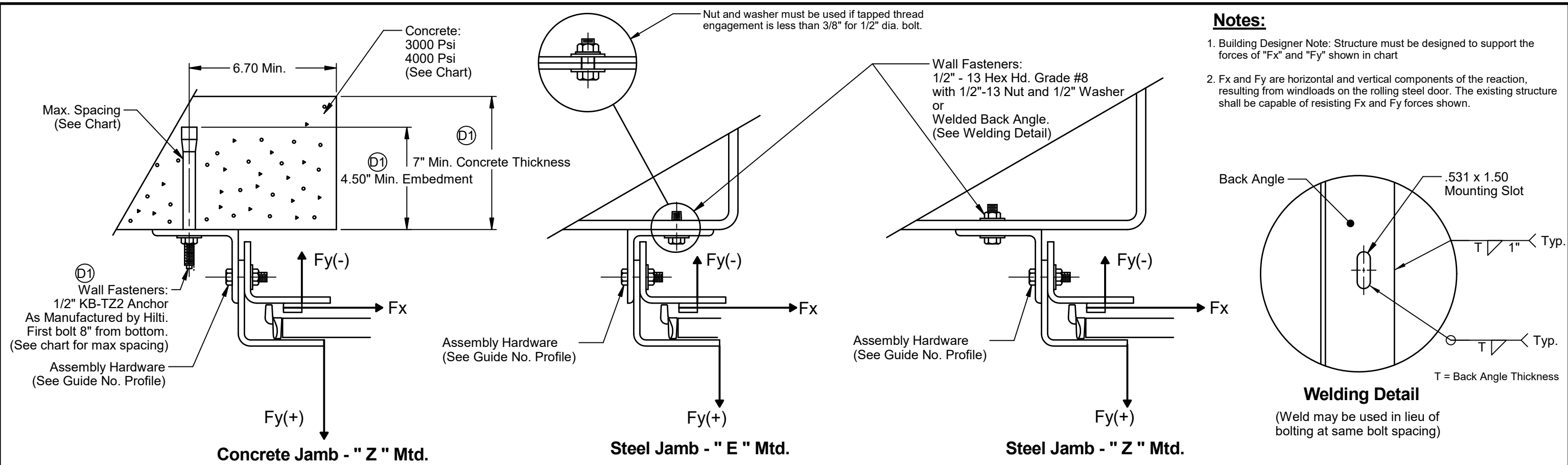


Malleable Cast Iron Endlock/Windlock



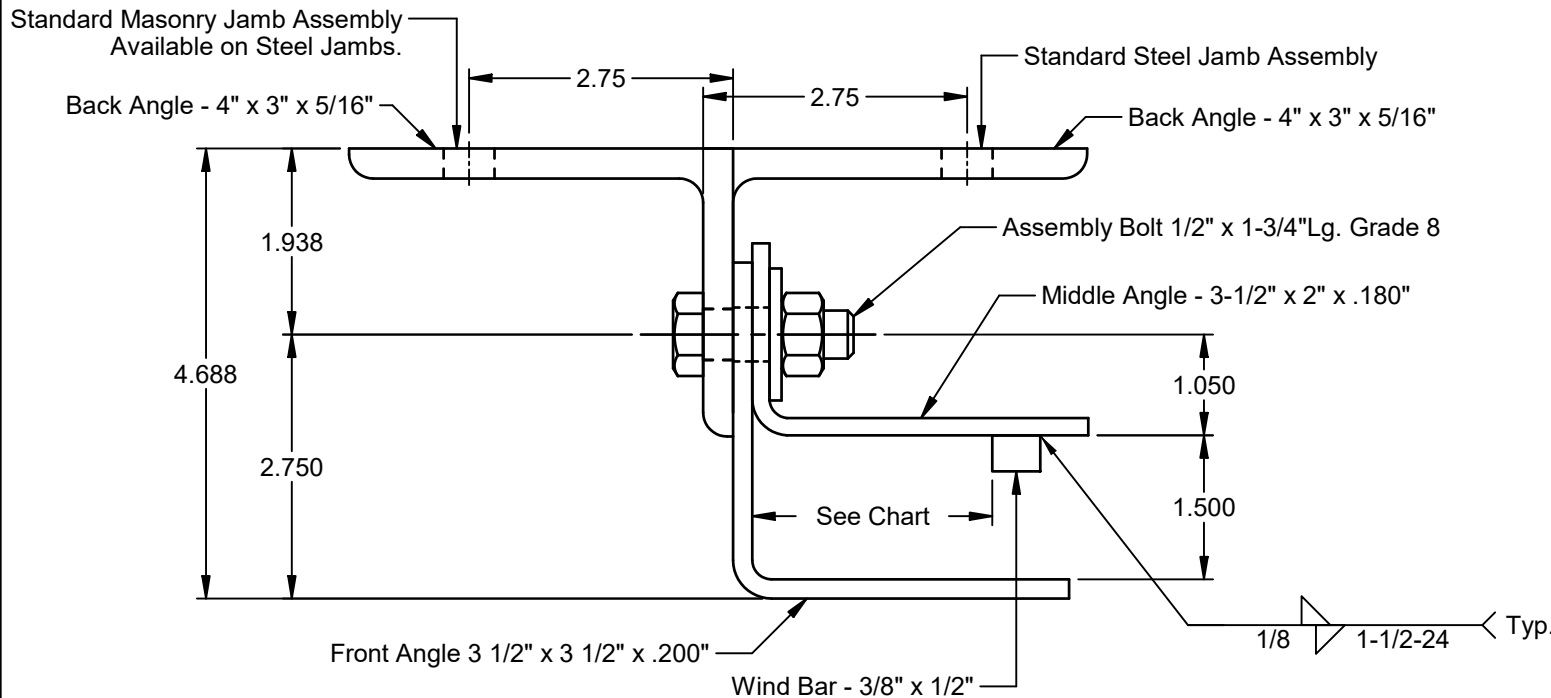
Bottom Bar Standard Assembly

TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (.XX) ± .03 THREE PLACE (.XXX) ± .015 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED	MATERIAL:	SCALE: NONE	 1101 EAST RIVER ROAD DIXON, IL. 61021	TITLE: Spec, Wind load, HVHZ DuraCoil - 22ga. Minimum Series IF/FF		
		DRAWN BY: M. Reutzel				
		CHECKED BY: J. Bonnell				
	FINISH:	DATE: 03/29/2016		NO. P-2190	SHEET 2 OF 3	REV E
		ECN. NO.: 5935.01				



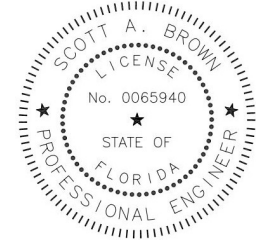
DuraCoil											
Door Opening Width Including	Slat Type	Slat Gauge	Slat Length	Design Load PSF	Slip	Wind Bar Location	Bolt Spacing Steel Jamb	Anchor Spacing Concrete Jamb 3000 PSI	Anchor Spacing Concrete Jamb 4000 PSI	Guide Load F _x Lbs./Ft.	Guide Load F _y Lbs./Ft.
16'	FF	22, 20, or 18	D.R. - 3.00	65	1.00	2.12	16"	11"	12"	1659	520
16'	IF	22, 20, or 18	D.R. - 3.00	65	1.00	2.12	20"	15"	16"	1162	520

Notes:
D.R. = Design Reference



Corrosion-Resistant Fasteners and Connectors

Internal components - including fasteners, anchors, connectors, metal plates, and other hardware - do not comply with the corrosion-resistance requirements of FBC Section 1711. Therefore, this product is not suitable for Exterior or Unconditioned Interior installations within 3000 feet of a saltwater coastline.



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

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