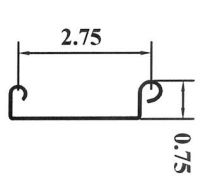
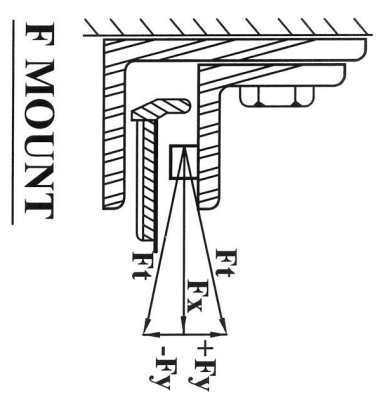


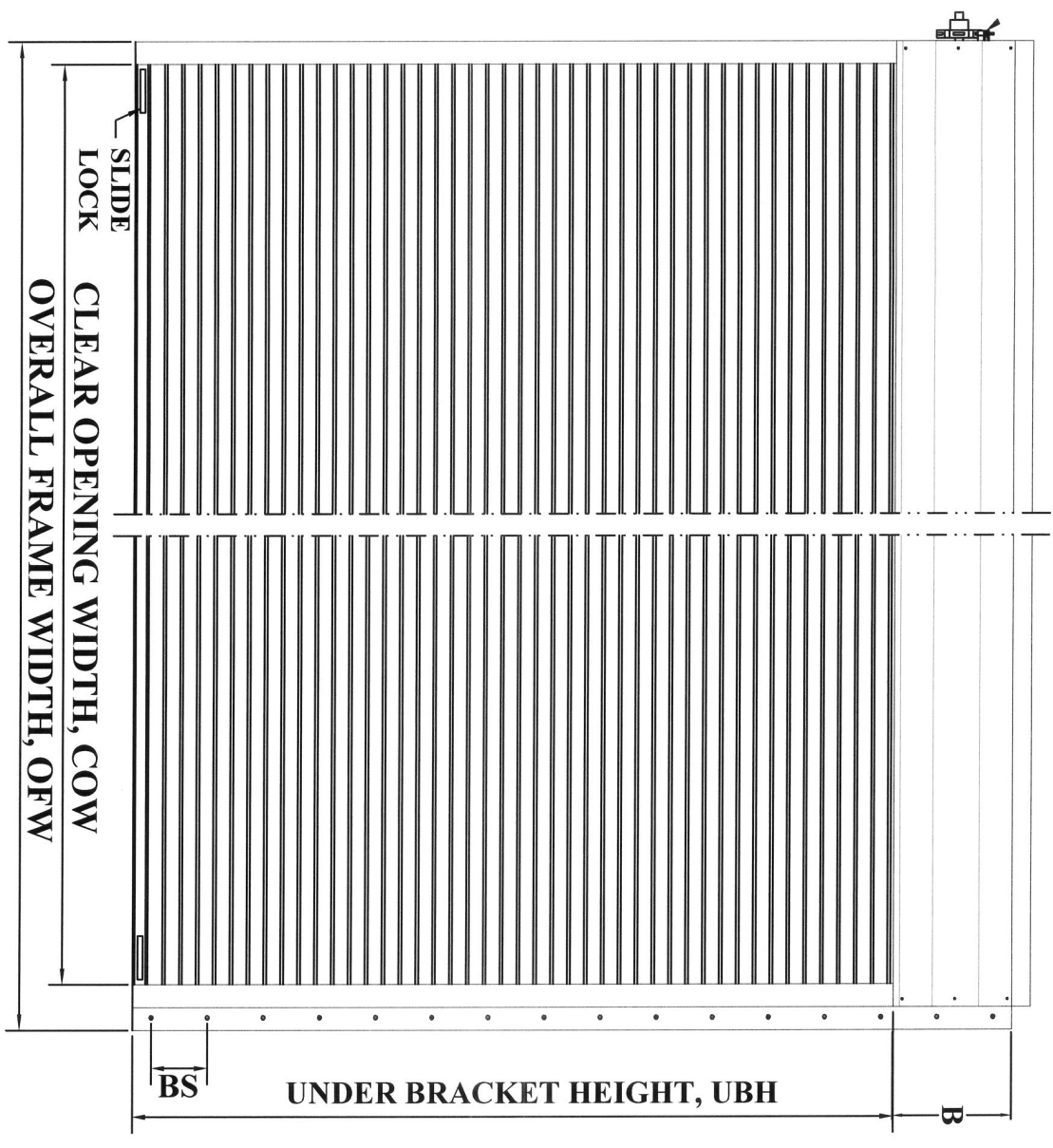
**S FLAT INSUL. SLAT**  
 SFI22  
 SFI20  
 SFI18



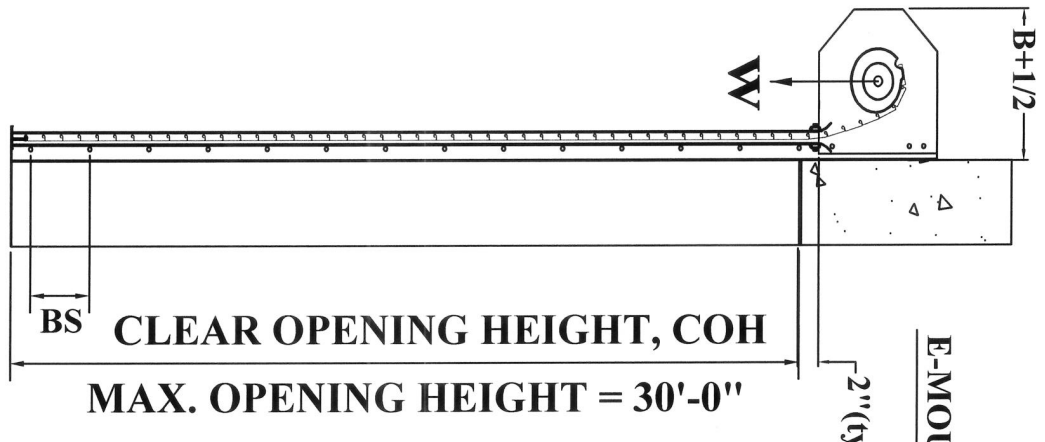
**S FLAT SLAT**  
 SF22  
 SF20  
 SF18



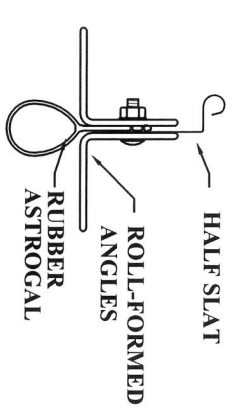
**F MOUNT**



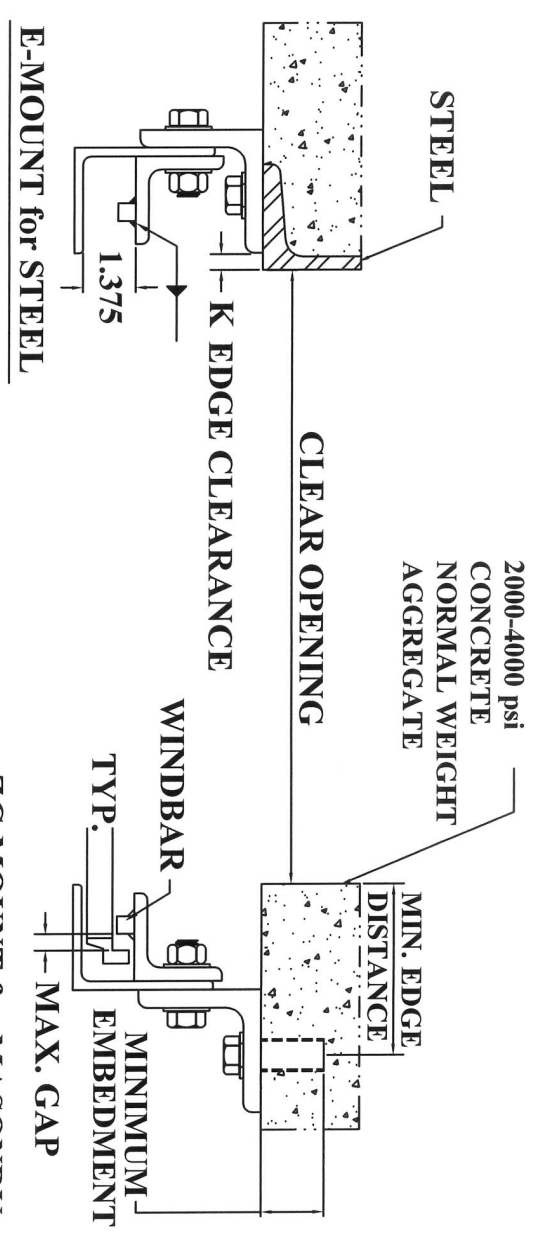
FRAME OPENING  
 CLEAR OPENING



**CLEAR OPENING HEIGHT, COH**  
**MAX. OPENING HEIGHT = 30'-0"**

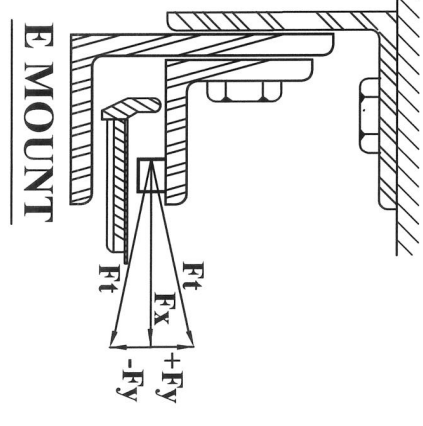


**BOTTOM BAR**

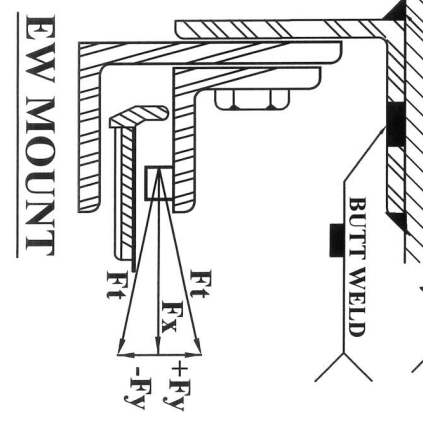


**E-MOUNT for STEEL**

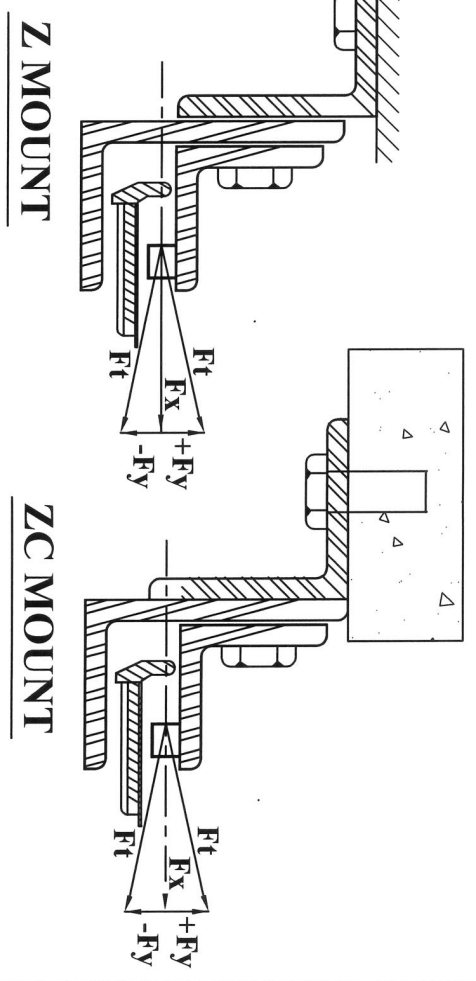
**ZC-MOUNT for MASONRY**



**E MOUNT**

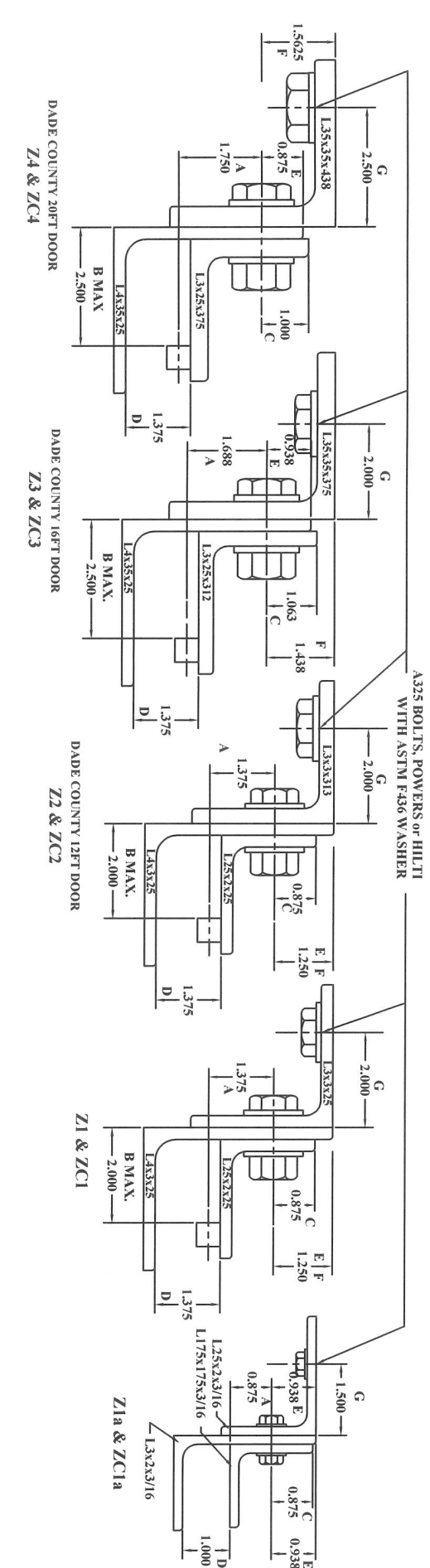
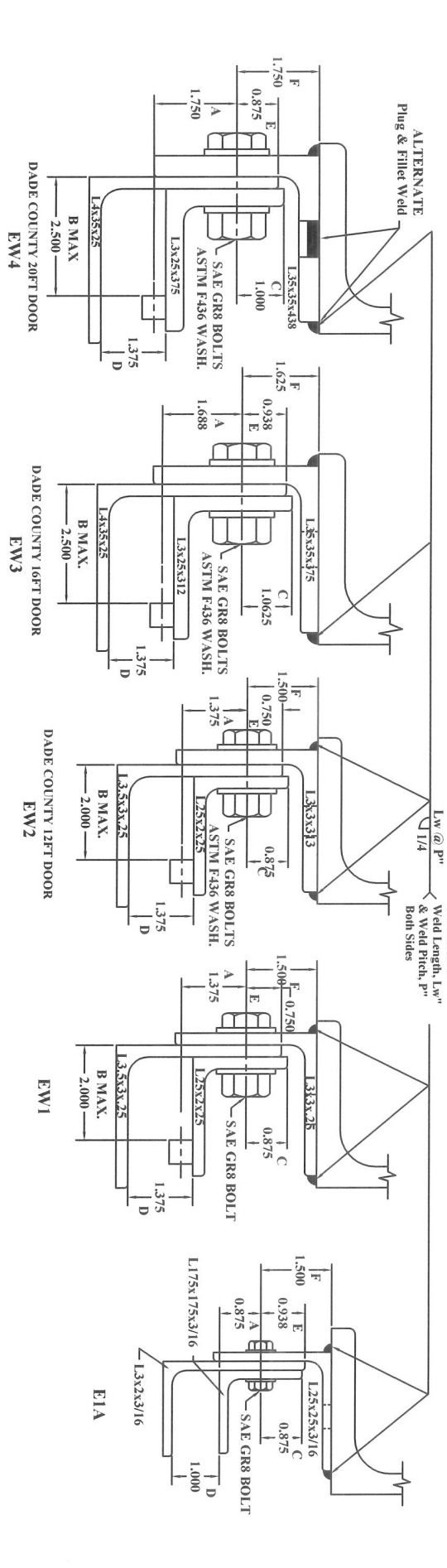
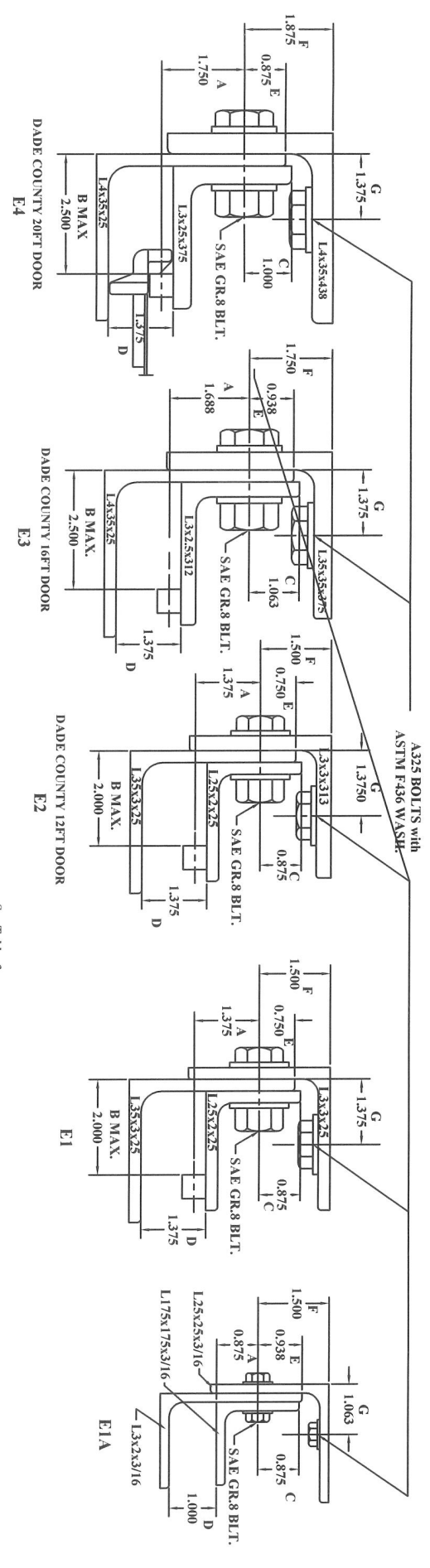
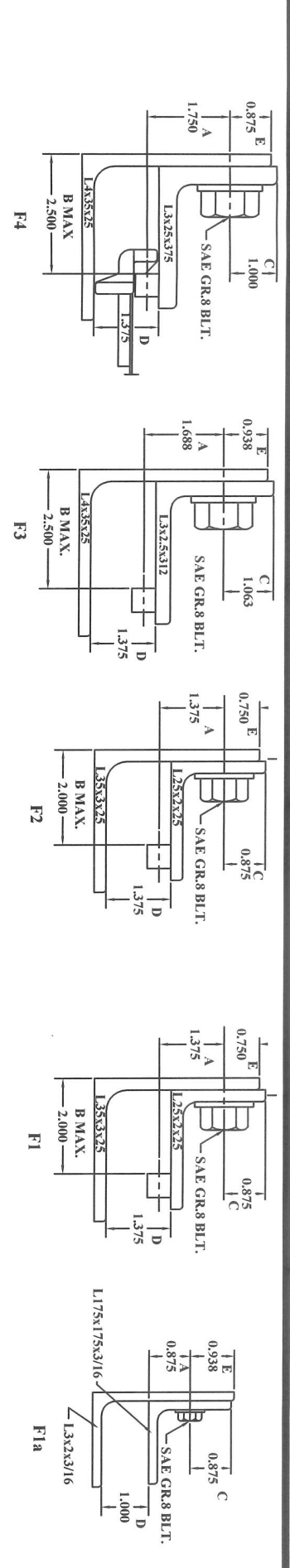


**EW MOUNT**



**Z MOUNT**

**ZC MOUNT**



NOTES:  
 1. THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A ROLL-UP DOOR ASSEMBLY DESIGNED AND TESTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, THE NATIONAL BUILDING CODE AND THE FLORIDA BUILDING CODE.  
 2. A 33% INCREASE IN ALLOWABLE STRESS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT.  
 3. THIS ROLL-UP DOOR HAS BEEN TESTED FOR UNIFORM STATIC PRESSURE, IMPACT AND FATIGUE RESISTANCE IN ACCORDANCE WITH THE FBC TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES TAS 201, TAS 202, TAS 203.

4. THESE PRODUCT EVALUATION DOCUMENTS ARE GENERIC. THEY WERE PREPARED BY THE PRODUCT ENGINEER AND ARE NOT SITE SPECIFIC. WHEN SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED BY A DULY LICENSED AND REGISTERED ENGINEER OR ARCHITECT.  
 5. THESE PRODUCT EVALUATION DOCUMENTS ARE NOT VALID FOR PERMIT WITHOUT ORIGINAL SIGNATURE, DATE AND SEAL ON EACH PERMIT COPY, WHETHER OR NOT A MASTER APPROVAL DOCUMENT IS ON FILE WITH A MUNICIPALITY OR OTHER GOVERNING AGENCY.

6. THESE PRODUCT EVALUATION DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THE EXISTING STRUCTURE IS CAPABLE OF SUPPORTING THE HORIZONTAL AND VERTICAL FORCES, Vx AND Vy ON THE DOOR JAMBS OR SUPPORT STRUCTURE.  
 7. IF THE DEVIATING SITE SPECIFIC DOCUMENTS ARE PREPARED BY A DELGATED REGISTERED ENGINEER OR ARCHITECT, SAID DOCUMENTS SHALL BEAR THE DATE, SIGNATURE, AND SEAL OF THE DELGATED ENGINEER OR ARCHITECT AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW.

8. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING WIND VELOCITY AND GOVERNING CODE FOR THE SPECIFIC SITE.  
 9. DOORS MAY BE INSTALLED ON EITHER THE INTERIOR OR EXTERIOR OF AN EXTERNAL WALL. THE INDICATED TABULATED MAXIMUM WIND VELOCITIES ARE EITHER POSITIVE OR NEGATIVE PRESSURES.

10. DOOR CURTAIN SLATS SHALL BE FABRICATED FROM TYPE 201, 304 OR 430 STAINLESS STEEL (MINIMUM YIELD-50,000 PSI) OR ASTM A653 HSLAS TYPE A OR B, GRADE 50 GALVANIZED OR ASTM A653 STRUCTURAL STEEL GRADE 50 GALVANIZED.  
 11. ALL BOLTS AND WASHERS SHALL BE GALVANIZED STEEL OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 ksi.

12. ENDLCKS/WINDLOCKS SHALL BE CAST MALLEABLE IRON TYPE 32510 PER ASTM A47-99 OR CAST DUCTILE IRON PER ASTM A536 GRADE 65-45-12.  
 13. ALL WINDLOCK/ENDLOCK RIVETS SHALL BE 1/2 INCH STEEL RIVETS WITH A TENSILE STRENGTH OF 1,850 lbs. AND A SHEAR STRENGTH OF 2,400 lbs.

14. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70, MINIMUM WELDING PROCESS SHALL BE ARC WELDING A.W.S. E7014 OR MIG WELDING A.W.S. ER70S-6  
 15. CONCRETE WALL ANCHORS SHALL BE POWERS WEDGE BOLTS OR HILTI-RE 500 ADHESIVE WITH HS THREADED ROD PER ASTM 193-B7 WITH ASTM A563-GRADE C3 NUT & ASTM A496-07a WASHER. BOLTS FOR STEEL FRAME MOUNTING SHALL BE ASTM A325.

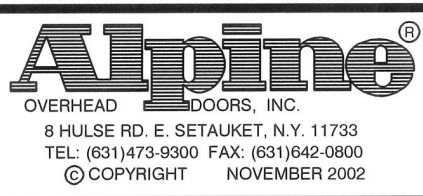
16. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED.

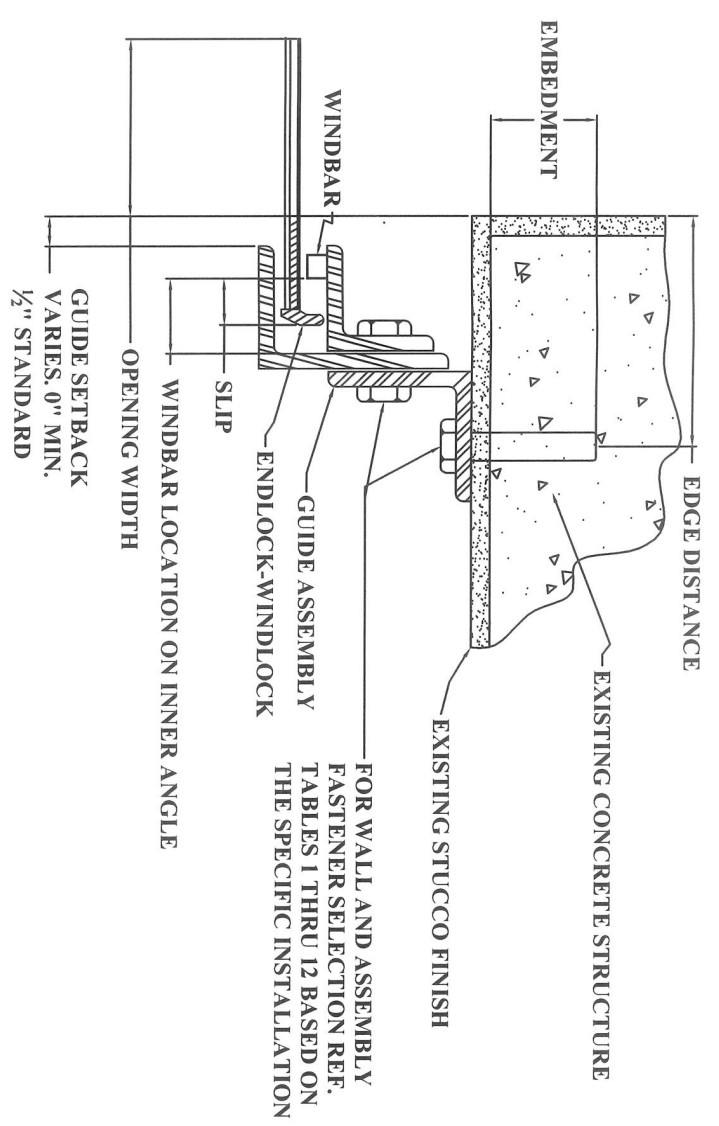


REDISTORM-SF  
 DWG. FC-2

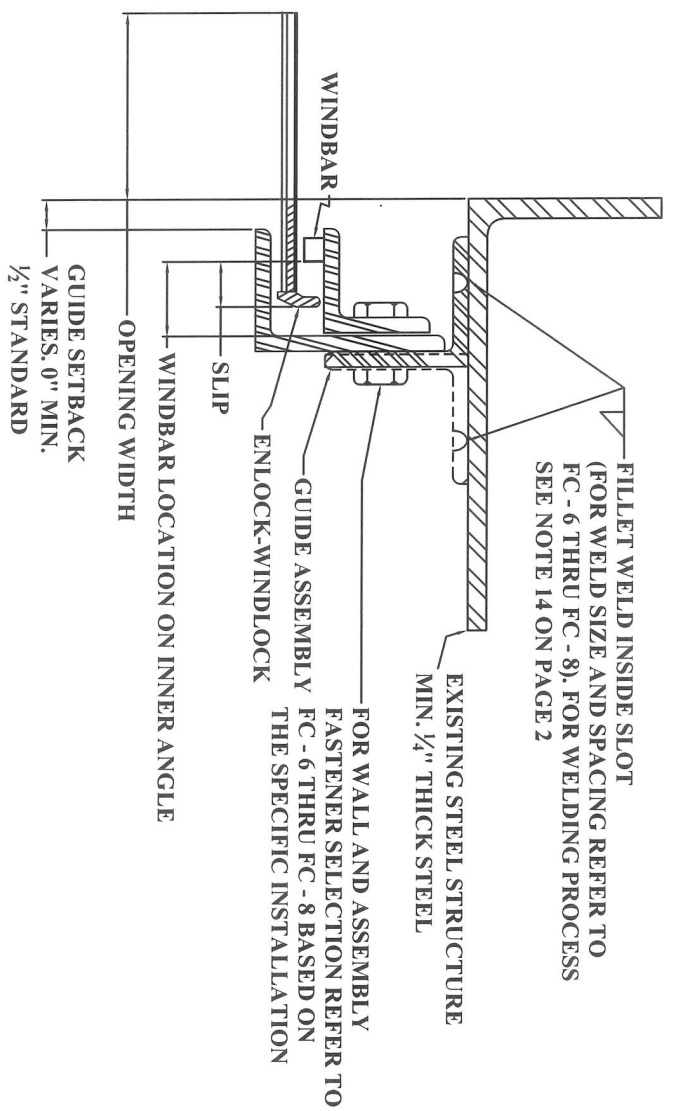


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 CUSTOMER:  
 CONTACT:  
 CHECK & DATE: DRAWN BY: DATE:  
 P. DeGiovanni 6/28/10

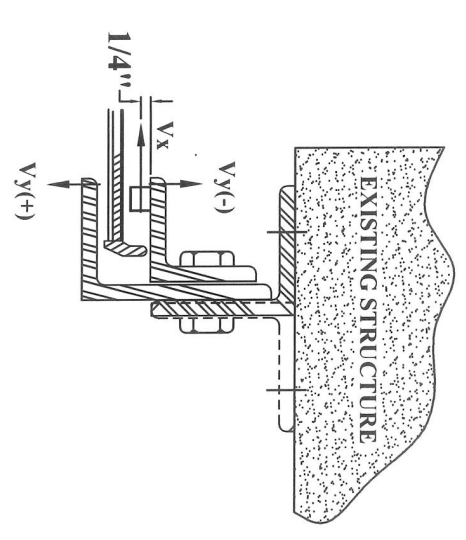




**Z MOUNT - CONCRETE STRUCTURE ASSEMBLY**

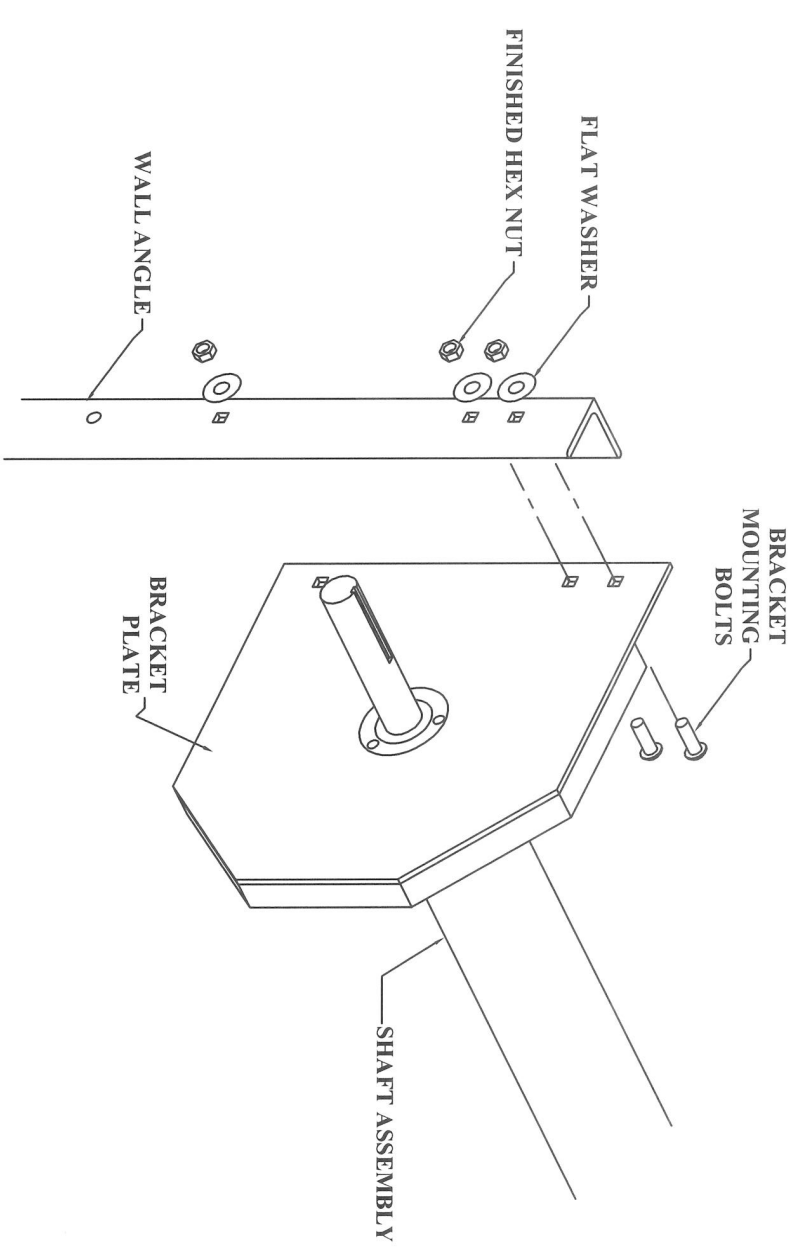
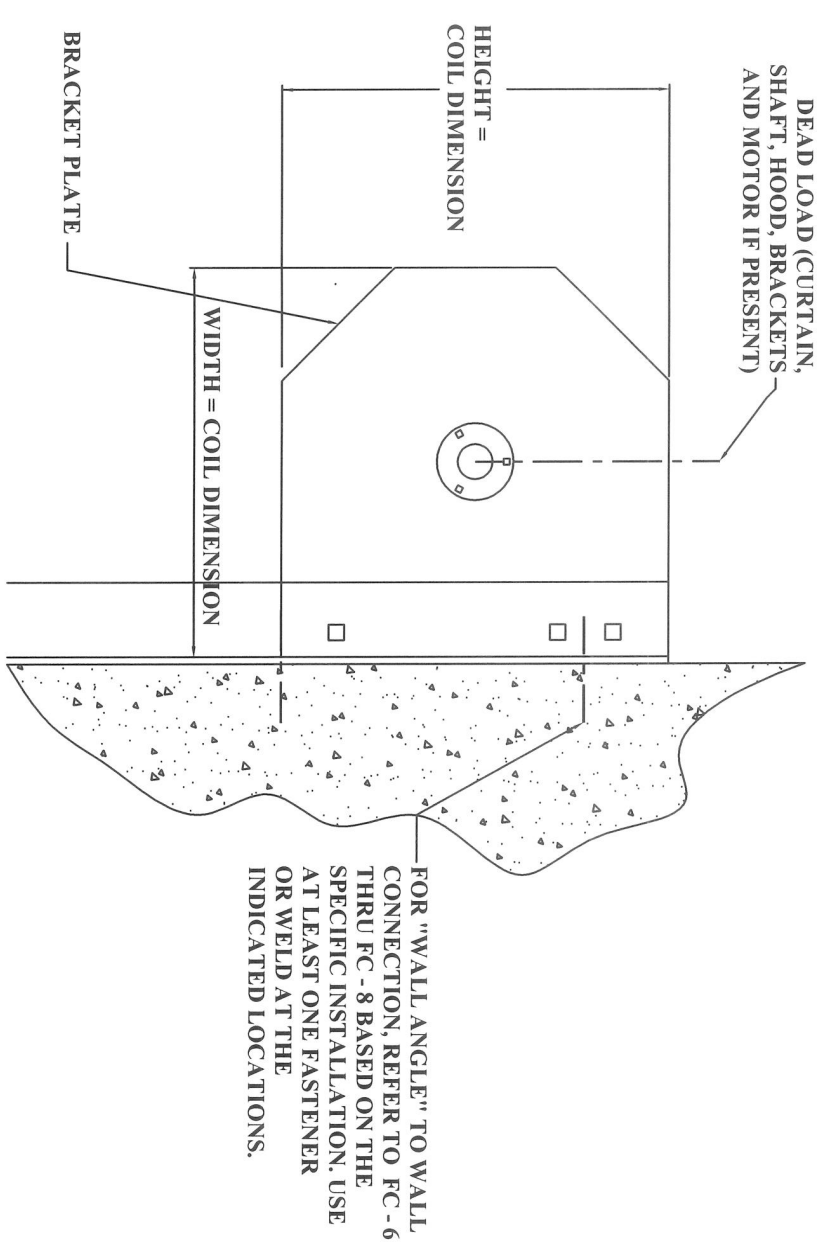


**E OR Z MOUNT - STEEL STRUCTURE ASSEMBLY**



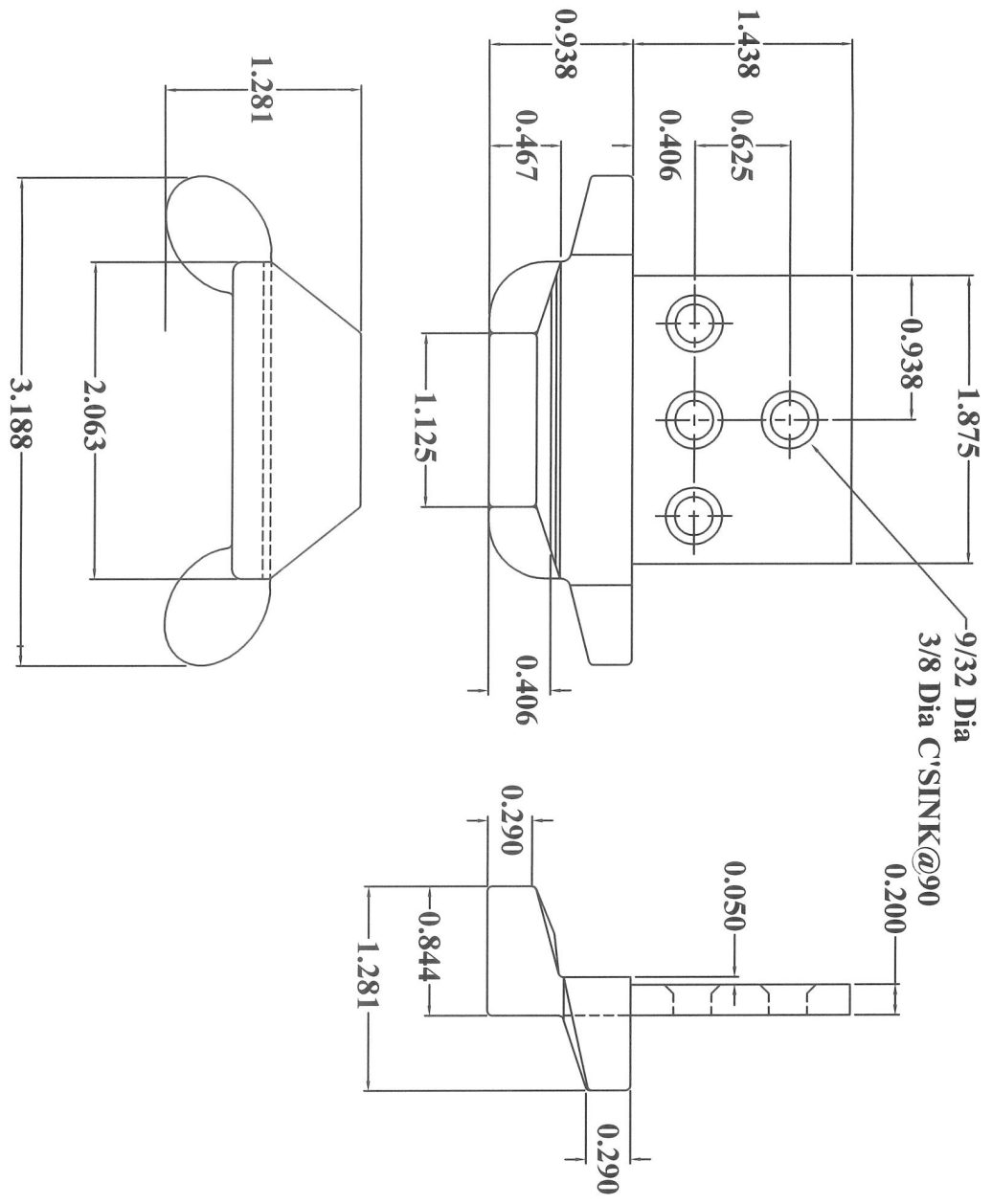
NOTE: Vx & Vy ARE HORIZ. AND VERT. COMPONENTS OF THE REACTION, RESPECTIVELY, RESULTING FROM WIND LOADS ON THE ROLL-UP DOOR. THE EXISTING STRUCTURE SHALL BE CAPABLE OF RESISTING Vx & Vy FORCES SHOWN AND THE CORRESPONDING REACTIONS DUE TO THE ECCENTRICITIES OF THE FORCES.

**SUPERIMPOSED LOAD DIAGRAM**

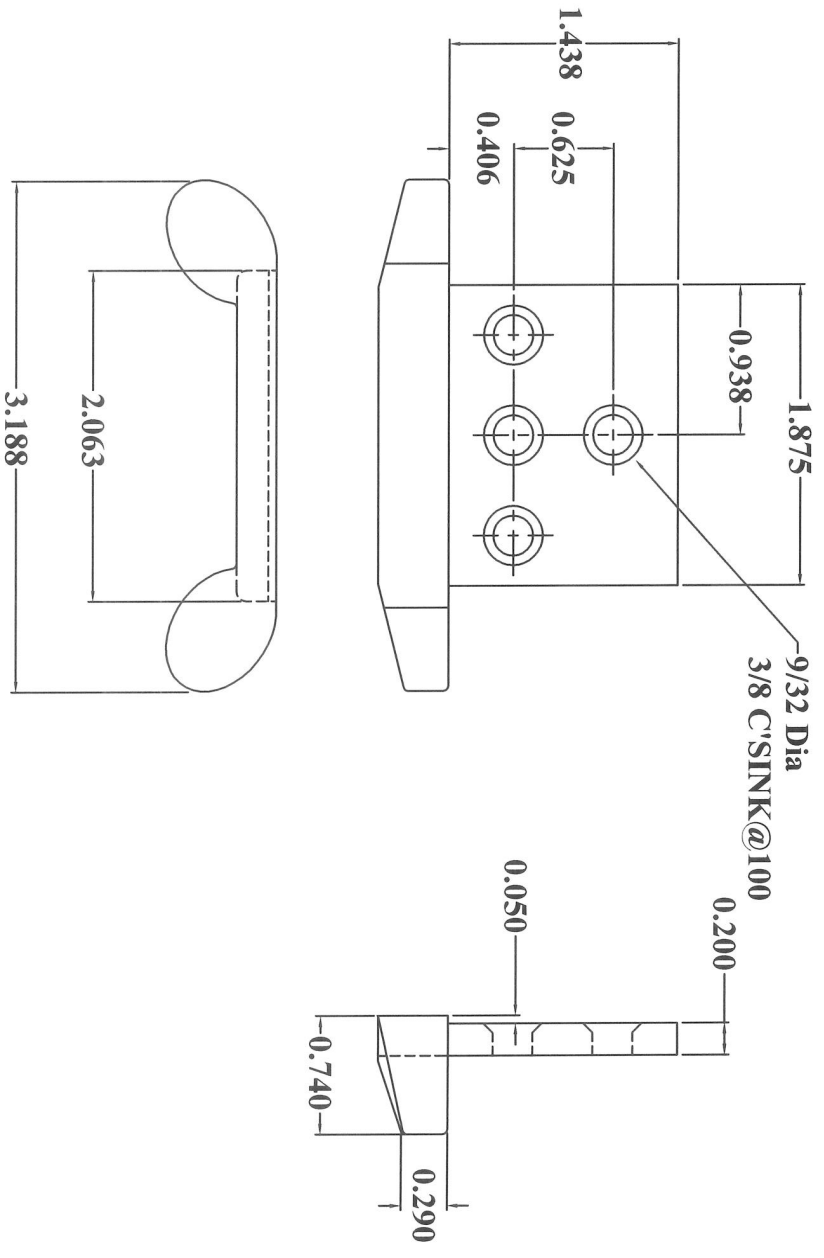
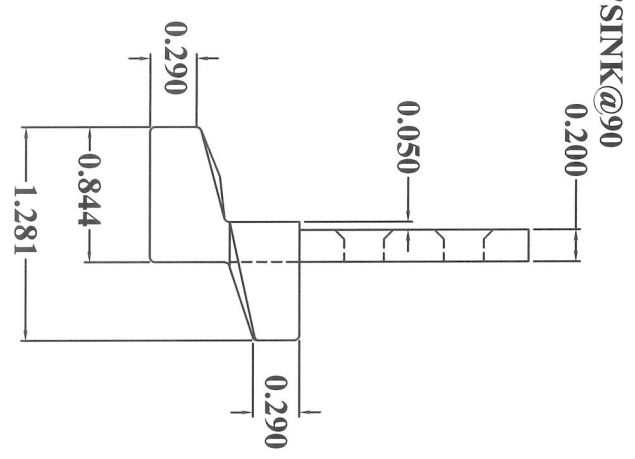


NOTE: WHEN MOTOR IS PROVIDED, HEIGHT OR WIDTH DIMENSION MAY INCREASE UP TO 2-1/2" BASED ON MOTOR LOCATION. WHEN AN 8" DIAMETER OR LARGER SHAFT ASSEMBLY IS PROVIDED, HEIGHT DIMENSION INCREASES BY 2".

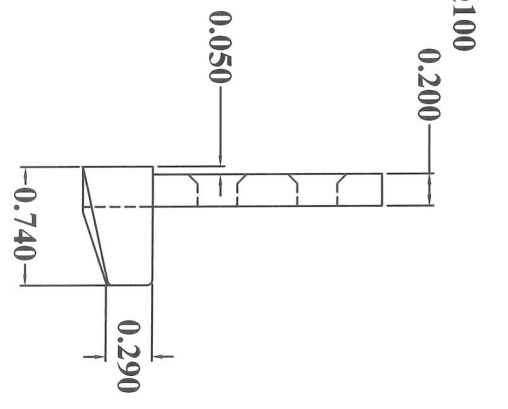
**Z MOUNT - CONCRETE STRUCTURE ASSEMBLY**



**WINDLOCK/ENDLOCK**



**ENDLOCK**



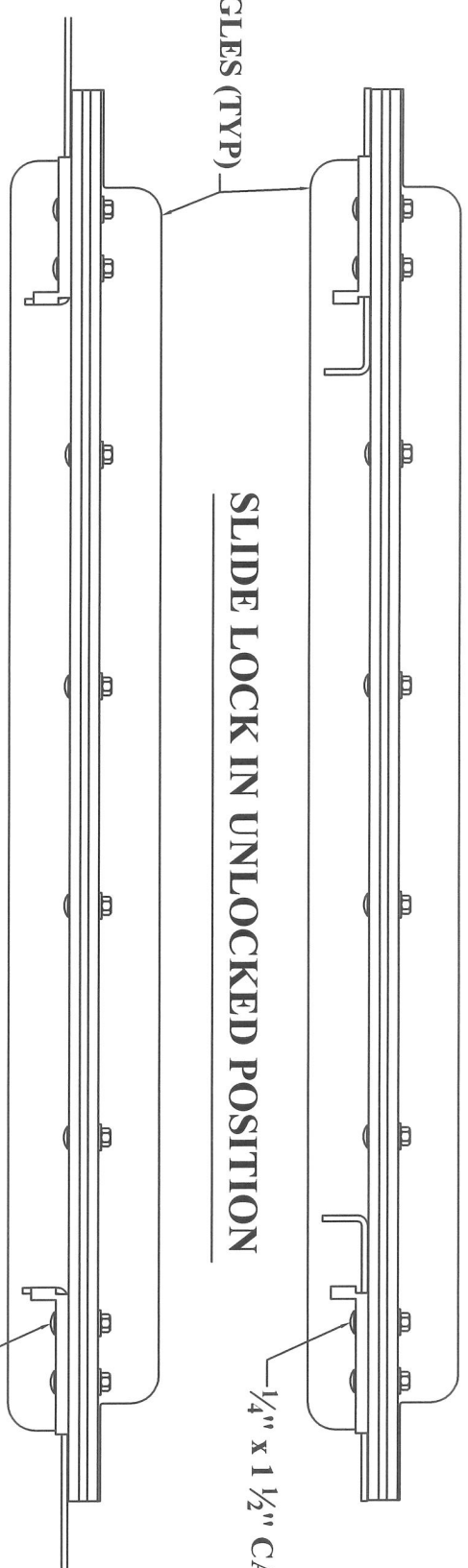
SALES REP:		
CUSTOMER:		
CONTACT:		
CHECK & DATE:	DRAWN BY: P. DeGiovanni	DATE: 06/17/10



**REDISTORM-SF**  
**DWG. FC - 4**



2x2x1/8" ROLL FORMED ANGLES (TYP)

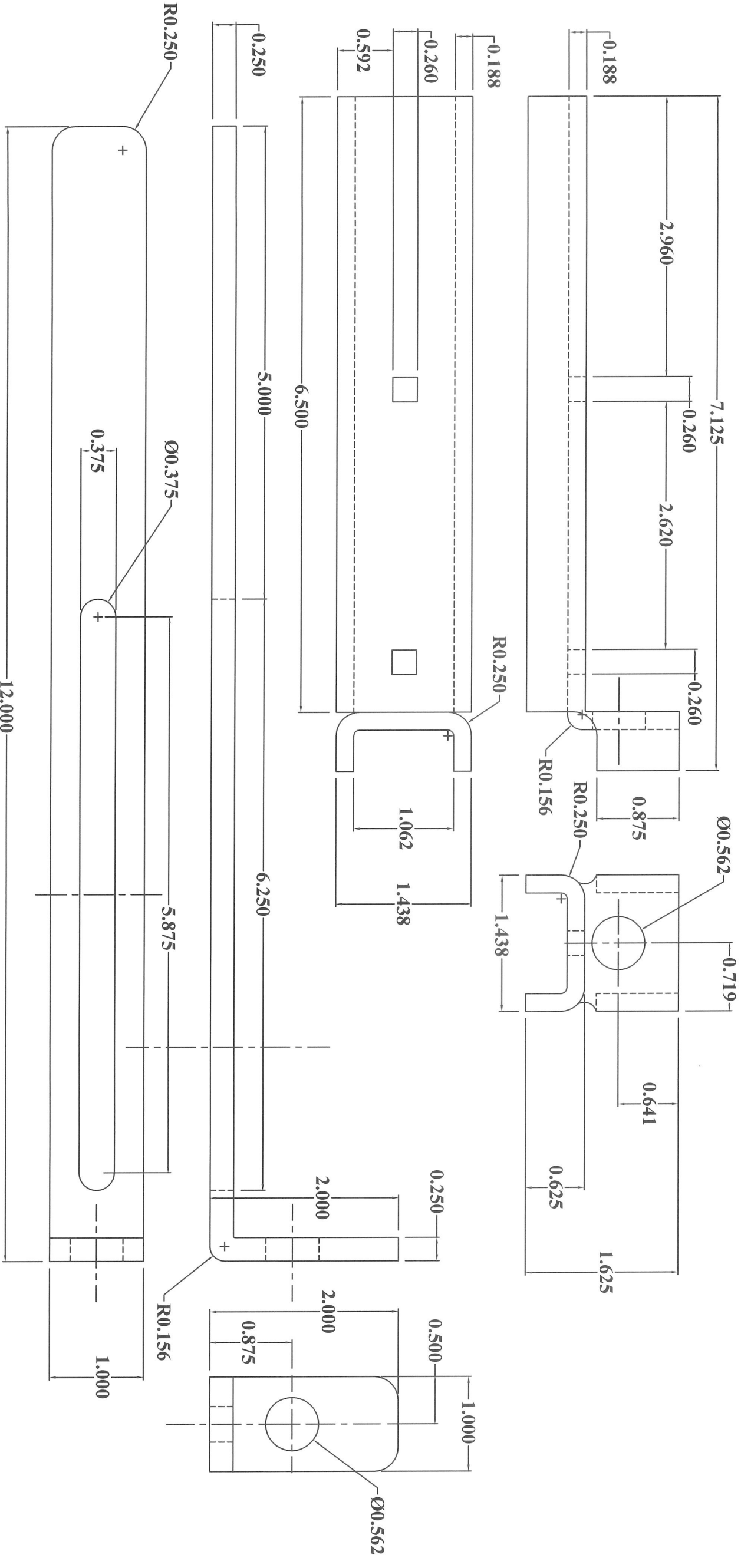


SLIDE LOCK IN UNLOCKED POSITION

1/4" x 1 1/2" CARRIAGE BOLTS (TYPICAL)

SLIDE LOCK IN LOCKED POSITION

1/4" x 1 1/2" CARRIAGE BOLTS (TYPICAL)







**30PSF WINDLOAD, 18 GA. GALVANIZED OR STAINLESS STEEL SLATS (MINIMUM YIELD 50,000 psi), FBC**

DOOR CLEAR OPENING CO(ft-in)	RAIL MOUNT SIZE	SLIP (in)	W'LOCK Y/N	W'BAR WELD PITCH (in)	F MOUNT		ALL MOUNTS		E MOUNT		EW MOUNT		ZC MOUNT		ZC MOUNT (3000)psi CONCRETE				MAXIMUM LOAD POS.(+)/NEG.(-)	ZC MOUNT		
					SAE GR8 DIA. (in)	MAX. SPACING (in)	SAE GR8 DIA. (in)	MAX. SPACING (in)	A325 DIA. (in)	MAX. SPACING (in)	(%) FILET WELD PERIMETER	MINIMUM IN SLOT PERIMETER	A325 DIA. (in)	MAX. SPACING (in)	MIN. DIA. (in)	MAX. SPACING (in)	MIN. EMBED. (in)	MIN. EDGE DIST.(in)			CONC. BOLT TYPE	Px(lb)
9'-3"	1A	N/A	N	N/A	0.25	18	0.25	18	0.25	18	0.5	18	0.25	18	0.25	10	2.5	3	POWERS	13	145	
12'-0"	1	0.165	Y	10	0.25	18	0.25	11	0.25	8	0.5	18	0.375	16	3.5	4.5	POWERS	667	77			
16'-0"	1	0.375	Y	8	0.25	9	0.375	15	0.375	11	0.75	18	0.375	11	3.5	4.5	POWERS	1080	162	ZC		
20'-0"	1	0.719	Y	7	0.375	16	0.375	12	0.375	10	0.75	18	0.375	9	3.5	4.5	POWERS	1269	235			
22'-0"	1	0.75	Y	7	0.375	13	0.375	9	0.375	8	1	16	0.5	9	4	6	POWERS	1597	284			
30'-0"	2	0.75	Y	6	0.375	8	0.375	8	0.5	8	1	15	0.625	9	5	7.5	POWERS	2615	406			
38'-3"	3	1.25	Y	5	0.5	9	0.625	9	0.625	12	1	15	0.75	8	6	9	POWERS	3024	535			

NOTE: STD BOLTS ASTM A325, CONCRETE BOLTS WEDGE BOLT or HILTI HIT RE 500 ADHESIVE with HS THD ROD ASTM A193-B7 with ASTM A563 NUT & ASTM A496 WASHER

**40PSF WINDLOAD, 18 GA. GALVANIZED OR STAINLESS STEEL SLATS (MINIMUM YIELD 50,000 psi), FBC**

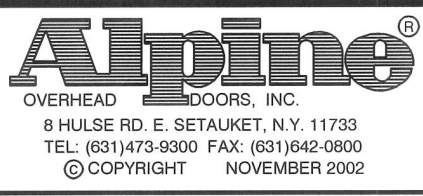
DOOR CLEAR OPENING CO(ft-in)	RAIL MOUNT SIZE	SLIP (in)	W'LOCK Y/N	W'BAR WELD PITCH (in)	F MOUNT		ALL MOUNTS		E MOUNT		EW MOUNT		ZC MOUNT		ZC MOUNT (3000)psi CONCRETE				MAXIMUM LOAD POS.(+)/NEG.(-)	ZC MOUNT
					SAE GR8 DIA. (in)	MAX. SPACING (in)	SAE GR8 DIA. (in)	MAX. SPACING (in)	A325 DIA. (in)	MAX. SPACING (in)	(%) FILET WELD PERIMETER	MINIMUM IN SLOT PERIMETER	A325 DIA. (in)	MAX. SPACING (in)	MIN. DIA. (in)	MAX. SPACING (in)	MIN. EMBED. (in)	MIN. EDGE DIST.(in)		
8'-0"	1A	N/A	N	N/A	0.25	18	0.25	18	0.25	18	0.5	18	0.25	18	2.5	3	POWERS	13	169	
12'-0"	1	0.165	Y	7	0.25	9	0.375	14	0.375	10	0.75	18	0.375	12	3.5	4.5	POWERS	1213	140	
15'-9"	1	0.343	Y	7	0.375	14	0.375	10	0.5	13	0.875	18	0.5	9	4	6	POWERS	1645	238	
24'-9"	2	0.75	Y	5	0.375	8	0.5	10	0.5	8	1	15	0.625	10	5	7.5	POWERS	2595	443	
31'-3"	3	1.25	Y	5	0.5	9	0.5	9	0.5	12	1	15	0.75	9	6	9	POWERS	2964	578	
36'-9"	4	1.25	Y	5	0.625	10	0.625	10	0.625	10	1	12	0.625	10	5.625	8.4375	HILTI	3845	694	

**50PSF WINDLOAD, 18 GA. GALVANIZED OR STAINLESS STEEL SLATS (MINIMUM YIELD 50,000 psi), FBC**

DOOR CLEAR OPENING CO(ft-in)	RAIL MOUNT SIZE	SLIP (in)	W'LOCK Y/N	W'BAR WELD PITCH (in)	F MOUNT		ALL MOUNTS		E MOUNT		EW MOUNT		ZC MOUNT		ZC MOUNT (3000)psi CONCRETE				MAXIMUM LOAD POS.(+)/NEG.(-)	ZC MOUNT
					SAE GR8 DIA. (in)	MAX. SPACING (in)	SAE GR8 DIA. (in)	MAX. SPACING (in)	A325 DIA. (in)	MAX. SPACING (in)	(%) FILET WELD PERIMETER	MINIMUM IN SLOT PERIMETER	A325 DIA. (in)	MAX. SPACING (in)	MIN. DIA. (in)	MAX. SPACING (in)	MIN. EMBED. (in)	MIN. EDGE DIST.(in)		
7'-0"	1A	N/A	N	N/A	0.25	18	0.25	18	0.25	18	0.5	18	0.25	16	2.5	3	POWERS	12	186	
11'-6"	1	0.145	Y	6	0.375	15	0.375	10	0.5	13	0.875	18	0.5	9	4	6	POWERS	1682	185	
16'-0"	2	0.375	Y	6	0.375	10	0.5	13	0.5	10	1	18	0.625	12	5	7.5	POWERS	2173	326	
21'-3"	2	0.75	Y	6	0.375	8	0.5	10	0.5	8	1	16	0.625	10	5	7.5	POWERS	2565	470	
26'-9"	3	1.25	Y	5	0.5	9	0.5	9	0.5	8	1	16	0.75	8	6	9	POWERS	2924	614	
31'-6"	4	1.25	Y	5	0.625	10	0.625	10	0.625	10	1	12	0.625	10	5.625	8.4375	HILTI	3807	740	

**60PSF WINDLOAD, 18 GA. GALVANIZED OR STAINLESS STEEL SLATS (MINIMUM YIELD 50,000 psi), FBC**

DOOR CLEAR OPENING CO(ft-in)	RAIL MOUNT SIZE	SLIP (in)	W'LOCK Y/N	W'BAR WELD PITCH (in)	F MOUNT		ALL MOUNTS		E MOUNT		EW MOUNT		ZC MOUNT		ZC MOUNT (3000)psi CONCRETE				MAXIMUM LOAD POS.(+)/NEG.(-)	ZC MOUNT
					SAE GR8 DIA. (in)	MAX. SPACING (in)	SAE GR8 DIA. (in)	MAX. SPACING (in)	A325 DIA. (in)	MAX. SPACING (in)	(%) FILET WELD PERIMETER	MINIMUM IN SLOT PERIMETER	A325 DIA. (in)	MAX. SPACING (in)	MIN. DIA. (in)	MAX. SPACING (in)	MIN. EMBED. (in)	MIN. EDGE DIST.(in)		
6'-6"	1A	N/A	N	N/A	0.25	18	0.25	18	0.25	18	0.75	18	0.375	15	3.5	4.5	POWERS	13	208	
9'-3"	1	0.076	Y	6	0.375	16	0.375	10	0.5	13	0.875	18	0.5	9	4	6	POWERS	1707	152	
14'-6"	2	0.281	Y	6	0.375	8	0.5	11	0.5	8	1	15	0.625	10	5	7.5	POWERS	2610	357	
21'-0"	3	0.75	Y	5	0.5	9	0.5	9	0.5	8	1	15	0.75	8	6	9	POWERS	2995	570	
26'-9"	4	1.25	Y	5	0.625	11	0.625	11	0.625	11	1	13	0.75	11	6	9	POWERS	3555	746	
27'-9"	4	1.25	Y	5	0.625	10	0.625	10	0.625	10	1	12	0.625	11	5.625	8.4375	HILTI	3771	778	



SALES REP: CUSTOMER: CONTACT: CHECK & DATE: DRAWN BY: DATE: P. DeGiovanni 7/22/10



**REDISTORM-SF**  
**DWG. FC - 8**

