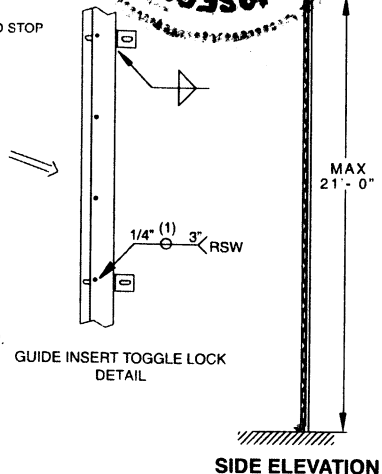
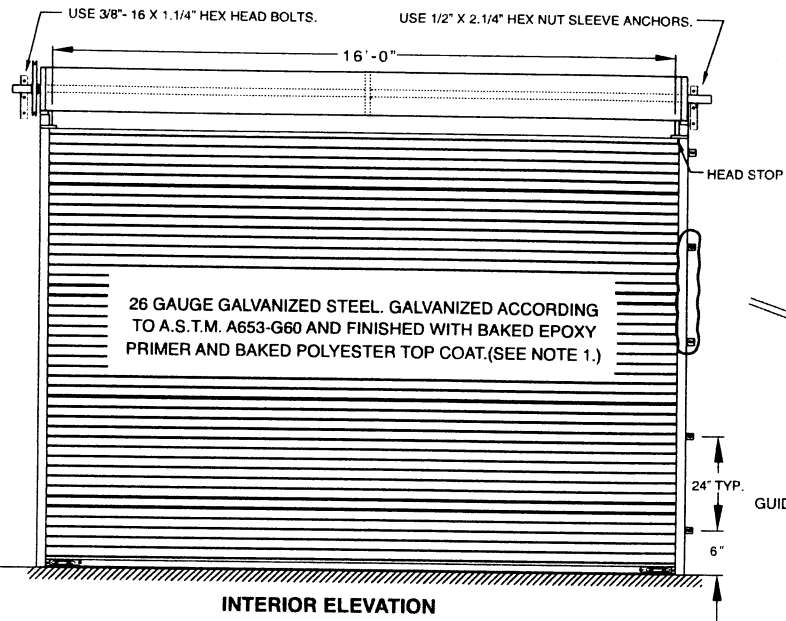
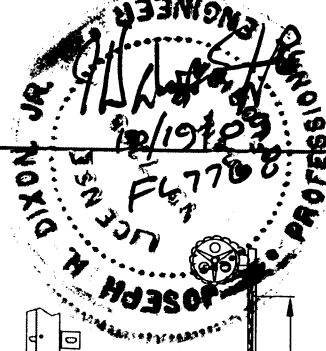
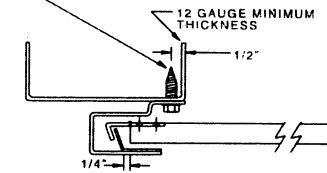
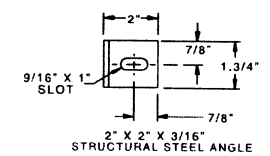
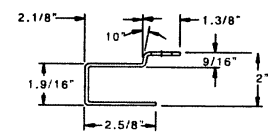
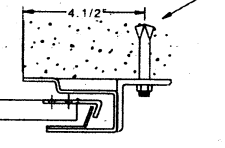




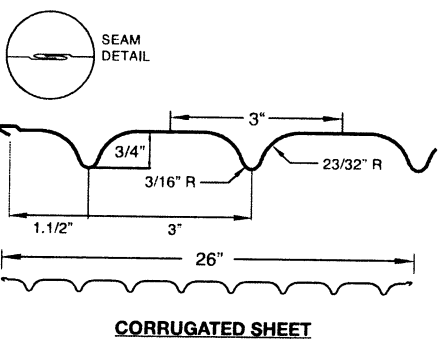
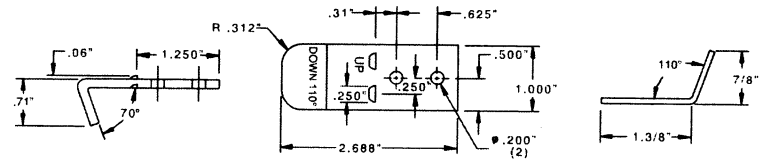
FOR STEEL JAMB. USE #14 X 1" SELF-DRILLING SCREWS AND FASTENED 6" FROM FLOOR AND SPACED AT 6" ON CENTER THEREAFTER.



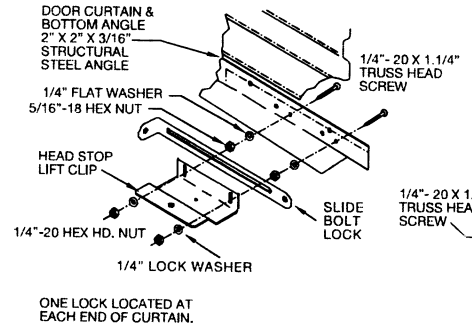
FOR CONCRETE JAMB. USE 1/2" X 2 1/4" EXPANSION BOLTS WITH 1 1/2" MINIMUM EMBEDMENT AND FASTENED 6" FROM FLOOR AND SPACED AT 24" ON CENTER THEREAFTER.



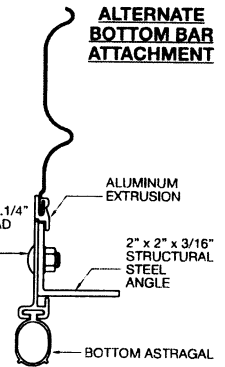
HEAVY DUTY GUIDE CLIP



SLIDE BOLT LOCK BOTTOM BAR



ALTERNATE BOTTOM BAR ATTACHMENT



- NOTES:**
1. STEEL FOR CORRUGATED SHEET ASTM-A653 WITH A MINIMUM YIELD STRENGTH OF 50 KSI AND TENSILE STRENGTH OF 65 KSI. (GRADE 50)
 2. GUIDES ROLL FORMED (12) GAUGE (.110"-120")GALVANIZED STEEL.
 3. GUIDE INSERT FORMED (12) GAUGE GALVANIZED STEEL.
 4. (10) GAUGE GALVANIZED STEEL WINDLOCK CLIP FASTENED WITH TWO 3/16" X .440" POP RIVETS AT EVERY OTHER CORRUGATION.

SUMMARY OF CATENARY FORCES FOR ALTERNATIVE DOORS COMPARED TO CERTIFIED TESTING LABORATORIES REPORT NO.: CTLA-783W, DATED 12/12/01

ROLLING SHEET DOOR

TEST DOOR: 16' WIDE X 7' HIGH, DESIGN WINDLOAD +/- 37.5 PSF

STATIC AIR PRESSURE TEST CONDUCTED IN ACCORDANCE WITH ASTM E330-97

DESIGN WIND FORCES ARE CALCULATED TO PRODUCE CATENARY FORCES AT THE GUIDES EQUAL TO OR LESS THAN THOSE CALCULATED FOR THE TEST DOOR.

THIS INDICATES THAT THE CURTAIN, WINDLOCKS, WINDLOCK CONNECTIONS, GUIDE ANGLES, AND JAMB ANCHORAGES WILL ALL BE STRESSED TO APPROXIMATELY THE SAME AS THOSE IN THE TEST DOOR, PROVIDED THAT THE DOOR IS CONSTRUCTED THE SAME FOR ALL OPENING WIDTHS.

	Width		Design Windload		Door	
	ft	Pos psf	Neg psf	Model	gage in	
16 x 7 Test Door	16	37.5	37.5	233	0.019	
Calibration calculations for test door:						
Comparative forces by calculation to determine maximum design pressure						
Max Door Size						
8 x 21	8	95.9	95.9	233	0.019	
9 x 21	9	95.9	95.9	233	0.019	
10 x 21	10	80.1	80.1	233	0.019	
11 x 21	11	68.4	68.4	233	0.019	
12 x 21	12	59.3	59.3	233	0.019	
13 x 21	13	52.1	52.1	233	0.019	
14 x 21	14	46.3	46.3	233	0.019	
15 x 21	15	41.5	41.5	233	0.019	
16 x 21	16	37.5	37.5	233	0.019	
17 x 21	17	34.1	34.1	233	0.019	
18 x 21	18	31.2	31.2	233	0.019	
19 x 21	19	28.7	28.7	233	0.019	
20 x 21	20	26.5	26.5	233	0.019	

WINDLOCK CLIP (SEE NOTE 4.)

GUIDE INSERT (SEE NOTE 3.)



4255 McEver Industrial Drive
Acworth, GA 30101
Phone: (770) 974-2600 / Fax: (770) 974-1455
Web Site: www.astador.com

Model 233 Windlock Industrial Sheet Door

TEST SIZE	DESIGN PRESSURE	TEST PRESSURE
16' WIDE x 7' HIGH	±37.5	±56.25
MAXIMUM SIZE 20' WIDE x 21' HIGH		
SCALE = VARIES		
TOLERANCES FRACTION = ± 1/32		
X = ± .032 .XX = ± .015 .XXX = ± .005 ± ± 5		
DRAWN BY: JCF ISSUE: 5-15-07 REVISED: 9-2-09		
DO NOT SCALE DRAWING	DRAWING #607-2-233	SHEET 1 OF 1