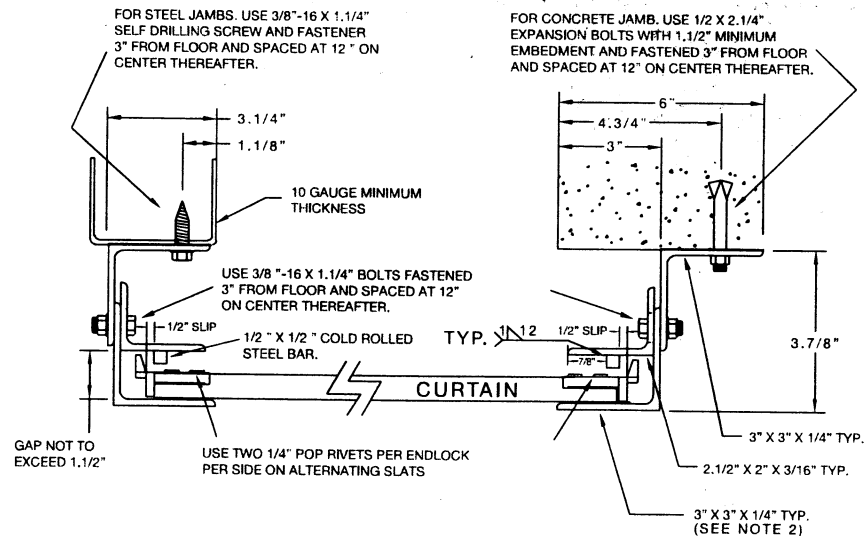
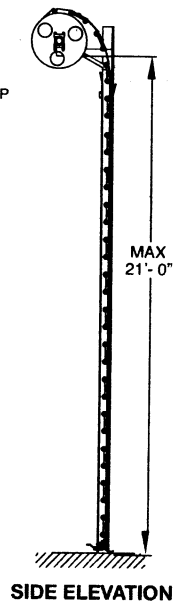
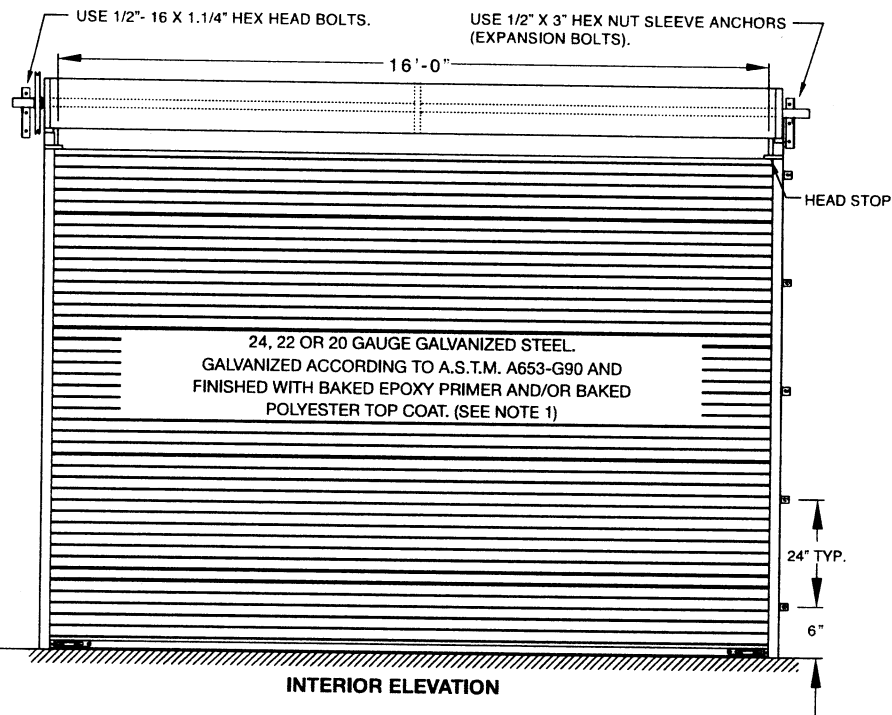
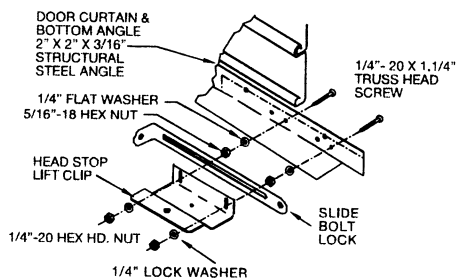
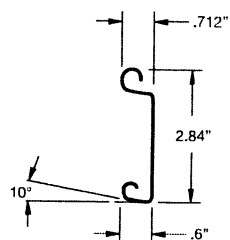




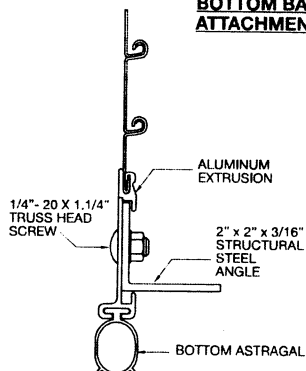
FLAT SLAT 24, 22 OR 20 GA.

SLIDE BOLT LOCK BOTTOM BAR



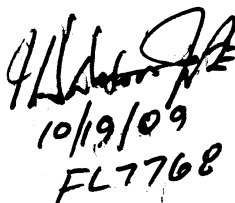
ONE LOCK LOCATED AT EACH END OF CURTAIN.

ALTERNATE BOTTOM BAR ATTACHMENT



NOTES:

1. STEEL USED FOR SLATS IS ASTM-A653 WITH A MINIMUM YIELD STRENGTH OF 50 KSI AND TENSILE STRENGTH OF 65 KSI. (GRADE 50)
2. GUIDES COMPOSED OF STRUCTURAL STEEL ANGLES. (.1875" MIN. THICKNESS)

	 4255 McEver Industrial Drive Acworth, GA 30101 Phone: (770) 974-2600 / Fax: (770) 974-1455 Web Site: www.astadoor.com		
	300 Series Commercial Slat Door		
	TEST SIZE 16'0" WIDE x 7'0" HIGH	DESIGN PRESSURE + 40.0 - 37.0	TEST PRESSURE + 60.0 - 55.0
	MAXIMUM SIZE 20" WIDE x 21'0" HIGH		
SEAL			
SCALE = VARIOUS			
TOLERANCES FRACTION = ± 1/32			
X = ± .03% XX = ± .015 XXX = ± .005 ± .5			
DRAWN BY: JCF			
ISSUE: 5-15-07 REVISED: 9-2-09			
MODELS 324 - 24 GAUGE 322 - 22 GAUGE 320 - 20 GAUGE		TEST LOCATION CERTIFIED TESTING LABORATORIES 7252 NARCOOSEE ROAD ORLANDO, FL 32822	
		REFERENCE CTL TEST REPORT #689W EVALUATION REPORT #ER-07-0005	
DO NOT SCALE DRAWING		DRAWING #607-3-300F	SHEET 1 OF 2

**MODEL 324
24 GAUGE FLAT SLAT**

	Width	Design Windload		Door	
	ft	Pos psf	Neg psf	Model	gage in
16 x 7 Test Door	16	40	37	324	0.022
Calibration calculations for test door					
Comparative forces by calculation to determine maximum design pressure					
Max Door Size					
8 x 21	8	118.1	111.1	324	0.022
9 x 21	9	118.1	111.1	324	0.022
10 x 21	10	95.3	89.3	324	0.022
11 x 21	11	79.0	73.8	324	0.022
12 x 21	12	67.0	62.4	324	0.022
13 x 21	13	57.8	53.7	324	0.022
14 x 21	14	50.5	46.9	324	0.022
15 x 21	15	44.7	41.4	324	0.022
16 x 21	16	40.0	37.0	324	0.022
17 x 21	17	36.1	33.3	324	0.022
18 x 21	18	32.7	30.2	324	0.022
19 x 21	19	29.9	27.6	324	0.022
20 x 21	20	27.5	25.3	324	0.022

**MODEL 322
22 GAUGE FLAT SLAT**

	Width	Design Windload		Door	
	ft	Pos psf	Neg psf	Model	gage in
16 x 7 Test Door	16	40	37	324	0.022
Adjusted	16	41.4	38.4	322	0.029
Calibration calculations for adjusted test door					
Comparative forces by calculation to determine maximum design pressure					
Max Door Size					
8 x 21	8	128.5	121.5	322	0.029
9 x 21	9	128.5	121.5	322	0.029
10 x 21	10	102.5	96.5	322	0.029
11 x 21	11	84.2	79.0	322	0.029
12 x 21	12	70.8	66.2	322	0.029
13 x 21	13	60.7	56.6	322	0.029
14 x 21	14	52.8	49.1	322	0.029
15 x 21	15	46.5	43.2	322	0.029
16 x 21	16	41.4	38.4	322	0.029
17 x 21	17	37.2	34.5	322	0.029
18 x 21	18	33.7	31.2	322	0.029
19 x 21	19	30.7	28.4	322	0.029
20 x 21	20	28.1	26.0	322	0.029

**MODEL 320
20 GAUGE FLAT SLAT**

	Width	Design Windload		Door	
	ft	Pos psf	Neg psf	Model	gage in
16 x 7 Test Door	16	40	37	324	0.022
Adjusted	16	42.7	39.7	320	0.036
Calibration calculations for adjusted test door					
Comparative forces by calculation to determine maximum design pressure					
Max Door Size					
8 x 21	8	138.3	131.3	320	0.036
9 x 21	9	138.3	131.3	320	0.036
10 x 21	10	109.3	103.3	320	0.036
11 x 21	11	89.1	83.3	320	0.036
12 x 21	12	74.4	69.8	320	0.036
13 x 21	13	63.4	59.3	320	0.036
14 x 21	14	54.8	51.2	320	0.036
15 x 21	15	48.1	44.8	320	0.036
16 x 21	16	42.7	39.7	320	0.036
17 x 21	17	38.3	35.5	320	0.036
18 x 21	18	34.5	32.0	320	0.036
19 x 21	19	31.4	29.1	320	0.036
20 x 21	20	28.7	26.5	320	0.036

GENERIC NOTES:

**SUMMARY OF CATENARY FORCES FOR ALTERNATIVE DOORS
COMPARED TO CERTIFIED TESTING LABORATORIES REPORT NO.: CTLA-689W, DATED 4/10/01
ROLLING STEEL SLAT DOOR (FLAT SLAT)**

TEST DOOR: 16' WIDE X 7' HIGH, DESIGN WINDLOAD +40 / -37 PSF

STATIC AIR PRESSURE TEST CONDUCTED IN ACCORDANCE WITH ASTM E330-02

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.

J. H. [Signature]
10/19/09
FL 7768

SEAL

SCALE = VARIES

TOLERANCES
FRACTION = ± 1/32

.X = ± .032
.XX = ± .015
.XXX = ± .005 ± 5

DRAWN BY: JCF
ISSUE: 5-15-07 REVISED: 9-2-09



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TEST SIZE	DESIGN PRESSURE	TEST PRESSURE
16'0" WIDE x 7'0" HIGH	+ 40.0 - 37.0	+ 60.0 - 55.0

MAXIMUM SIZE 20" WIDE x 21.0" HIGH

MODELS

324 - 24 GAUGE
322 - 22 GAUGE
320 - 20 GAUGE

TEST LOCATION

CERTIFIED TESTING LABORATORIES
7252 NARCOOSEE ROAD
ORLANDO, FL 32822

REFERENCE

CTL TEST REPORT #689W
EVALUATION REPORT #ER-07-0005

DO NOT SCALE DRAWING DRAWING #607-3-300F SHEET 2 OF 2