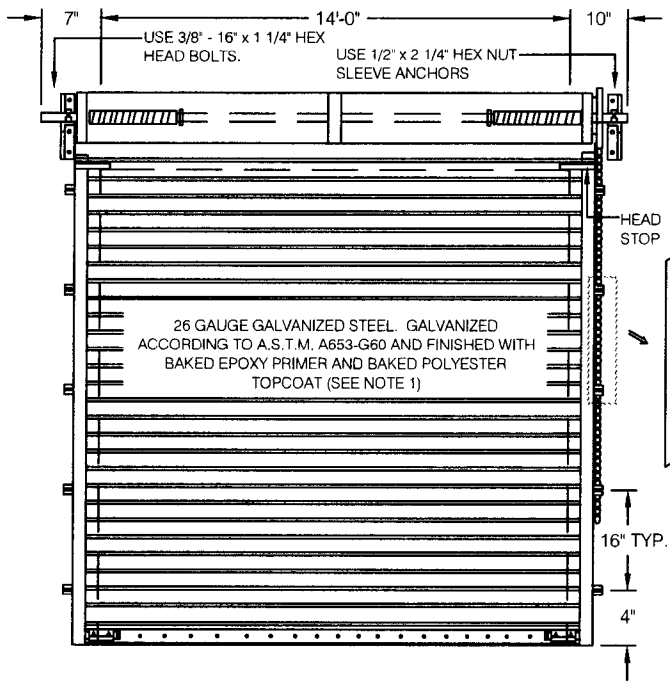
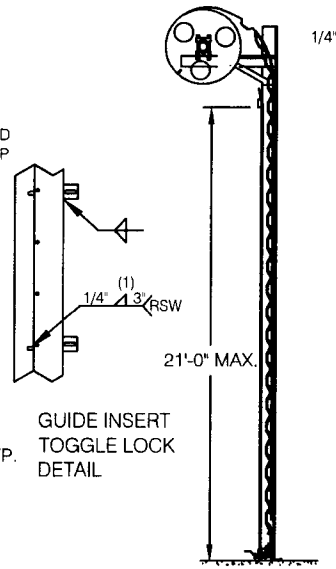


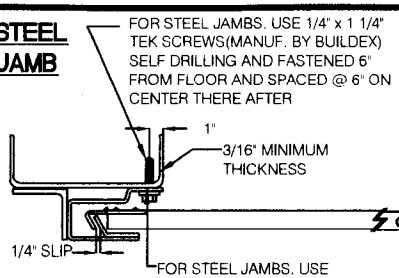
INTERIOR ELEVATION



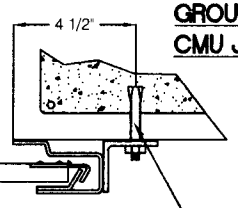
GUIDE INSERT TOGGLE LOCK DETAIL

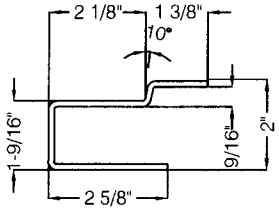
SIDE ELEVATION

STEEL JAMB

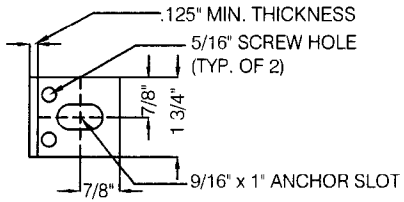


GROUT FILLED CMU JAMB

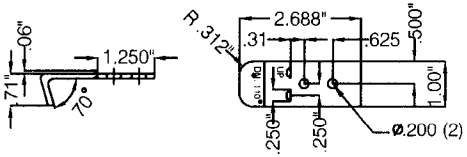




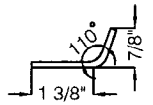
SEE NOTE #2



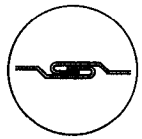
HEAVY DUTY GUIDE CLIP

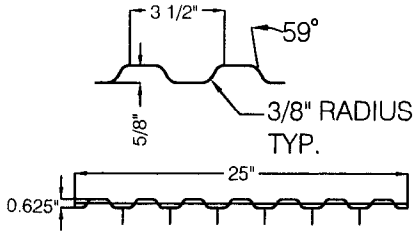


WINDLOCK CLIP (SEE NOTE #4)



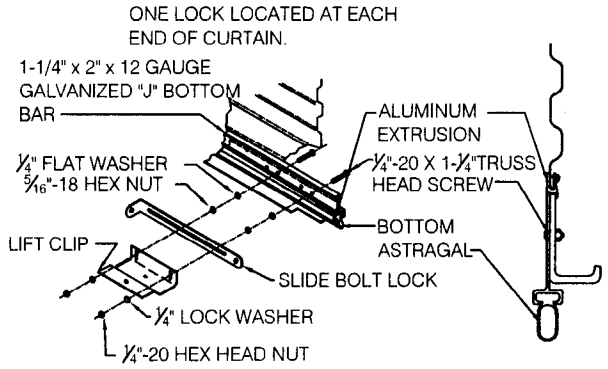
GUIDE INSERT (SEE NOTE #3)





WINDLOCK LOCATION FOR 6 WINDLOCKS PER PANEL NO WINDLOCKS AT SHEET LAP.

CORRUGATED SHEET



SLIDE BOLT LOCK AND BOTTOM BAR

STATE OF TEXAS
JOSEPH H. DIXON, JR.
18627
LICENSED
PROFESSIONAL ENGINEER
12/3/14
SEAL

ASTA Door Corporation
4255 McEver Industrial Dr.
Acworth, GA 30101
PH:(770) 974-2600/Fax:(770) 974-1455
www.astadoor.com

MODEL 203J WINDLOAD RATED WINDLOCK COMMERCIAL SHEET DOOR

SCALE : VARIES (DO NOT SCALE DRAWINGS)	TEST SIZE	DESIGN PRESSURE	TEST PRESSURE
TOLERANCES FRACTION = +/- 1/32 .X = +/- .032 .XX = +/- .015 .XXX = +/- .005 < =/- 5	14'-0"W x 10'H	+27.0 / -30.0	+40.5 / -45.0
DRAWN BY: BCLLC ISSUE: 12-03-14	MODELS 203J 204J	TEST LOCATION CERTIFIED TESTING LABORATORIES 124 PREMIER ROAD ORLANDO, FL 32822	
	DRAWING # 507-3CMU-203JM		SHEET 1 OF 2

GENERAL NOTES:

:

1. STEEL FOR CORRUGATED SHEET ASTM-A653 WITH MINIMUM YIELD STRENGTH OF 80 KSI AND TENSILE STRENGTH OF 82 KSI. (GRADE 80)
2. GUIDES ROLL FORMED (12) GAUGE GALVANIZED STEEL. MINIMUM YIELD STRENGTH OF 33 KSI.
3. GUIDE INSERT FORMED (12) GAUGE GALVANIZED STEEL.
4. (10) GAUGE GALVANIZED STEEL WINDLOCK CLIP FASTENED WITH TWO 3/16" x .440" POP RIVETS ON SIX CORRUGATIONS PER SIDE OF EACH SHEET.
5. THIS DOOR HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND THE INTERNATIONAL BUILDING CODE. THE DESIGN WIND PRESSURES REQUIRED FOR ANY DOOR SHALL BE DETERMINED USING THE APPROPRIATE SECTION OF THE CODE HAVING JURISDICTION WHERE THE BUILDING IS LOCATED.
6. THIS DOOR HAS BEEN SUCCESSFULLY TESTED TO:
   -THE UNIFORM STATIC AIR PRESSURE TEST PER ASTM E-330 AND DASMA 108-05.
   -DESIGN PRESSURE OF +27.0 PSF / -30.0 PSF AND A TESTED PRESSURE OF +40.5 PSF / -45.0 PSF.
7. THE SLEEVE ANCHOR SPACING FOR GROUT FILLED CMU JAMBS IS AS FOLLOWS: 4" A.F.F. FOLLOWED BY ANCHORS 16" ON CENTER THEREAFTER.
8. FOR GROUT FILLED CMU JAMBS, USE 1/2"x3" SLEEVE ANCHOR WITH 2 1/4" MINIMUM EMBEDMENT AND FASTENED 4" FROM FLOOR SPACED AT 16" ON CENTER THEREAFTER.
9. ALL FASTENERS SHALL BE GALVANIZED OR ZINC COATED WITH A MINIMUM TENSILE STRENGTH OF 60 KSI.
10. 1-1/4" X 2" X 12 GA. BOTTOM BAR ASSEMBLY FASTENED 5 3/4" FROM EACH END AND 12" O.C. FROM CENTER USING 1/4" x 1" CARRIAGE BOLTS. 12 GAUGE GALVANIZED "J" BOTTOM BAR UTILIZED. MINIMUM YIELD STRENGTH OF 33 KSI.

	Width	Design Windload		Sheet Door	
	ft	Pos psf	Neg psf	Model	gage in
14 x 10 Test Door	14	27	30	203J	0.017
Calibration calculations for test door					
Comparative forces by calculation to determine maximum design pressure					
ax Door Size					
8 x 21	8	48.2	53.1	203J	0.017
9 x 21	9	48.2	53.1	203J	0.017
10 x 21	10	48.2	53.1	203J	0.017
11 x 21	11	40.7	45.0	203J	0.017
12 x 21	12	35.0	38.7	203J	0.017
13 x 21	13	30.6	33.9	203J	0.017
14 x 21	14	27.0	30.0	203J	0.017
15 x 21	15	24.1	26.9	203J	0.017
16 x 21	16	21.7	24.1	203J	0.017
17 x 21	17	19.7	21.9	203J	0.017
18 x 21	18	18.0	20.0	203J	0.017

Summary of Catenary Forces for alternative doors
Compared to Element Materials Techology Report No.: ESP010181P-6, dated 8/21/13
Rolling Sheet Door
Test Door: 14' wide x 10' high, Design Windload +27.0 / -30.0 psf
Static air pressure test conducted in accordance with ASTM E330-02 and DASMA 108-05

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.

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MODEL 203J WINDLOAD RATED WINDLOCK COMMERCIAL SHEET DOOR

SCALE : VARIES (DO NOT SCALE DRAWINGS)
TOLERANCES
FRACTION = +/- 1/32
.X = +/- .032
.XX = +/- .015
.XXX = +/- .005 < =/- 5
DRAWN BY: BCLLC ISSUE: 12-03-14

TEST SIZE	DESIGN PRESSURE	TEST PRESSURE
14'-0"W x 10'H	+27.0 / -30.0	+40.5 / -45.0

MODELS
203J
204J

TEST LOCATION
CERTIFIED TESTING LABORATORIES
124 PREMIER ROAD
ORLANDO, FL 32822

DRAWING # 507-3CMU-203JM