MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339
www.miamidade.gov/buildingcode

NOTICE OF ACCEPTANCE (NOA)

Overhead Door Corporation
2501 South State Hwy 121, Suite 200
Lewisville, TX 75067

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 610/620 Steel Rolling Door 22'-0" Wide

APPROVAL DOCUMENT: Drawing No. **D-308133**, titled "Series 610/620 Rolling Service Door 22' Dade County", Sheets 1 through 3 of 3, dated 09/05/03 and 10/10/03, with Revision G dated 08/25/10, prepared by Overhead Door Corporation, signed and sealed by LeRoy G. Krupke, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **revises NOA # 09-0324.09** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.
The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

11/03/10

NOA No. 10-0831.14
Expiration Date: September 16, 2014
Approval Date: November 24, 2010

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **D-308133**, titled "Series 610/620 Rolling Service Door 22' Dade County", Sheets 1 through 3 of 3, dated 09/05/03 and 10/10/03, with Revision G dated 08/25/10, prepared by Overhead Door Corporation, signed and sealed by LeRoy G. Krupke, P.E.

B. TESTS *"Submitted under NOA # 05-1003.22"*

1. Test report on Uniform Static Air Pressure per TAS 202, Large Missile Impact Test per TAS 201, Cyclic Wind Pressure Test per TAS 203 and Tensile Test per ASTM E8 on a 16' x 10" Steel Roll-Up Service Door", prepared by Architectural Testing, Inc., Test Report No. **ATI 01-43463.02**, dated 09/10/03, signed and sealed by Steven M. Urich, P.E.
2. Test Report # **9100550287** on Salt Exposure Fog per ASTM B-117 on G30, G40 & G90 samples, prepared by Environmental Testing Laboratory dated 03/13/06 and signed by B. Richard.

C. CALCULATIONS *"Submitted under NOA # 05-1003.22"*

1. Calculations for Dade County Product Approval of 20 & 18 Gage Rolling Garage Door, prepared by Overhead Door Corporation on sheet 2 of 3, signed and sealed by L. G. Krupke, P.E. on 09/16/05.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

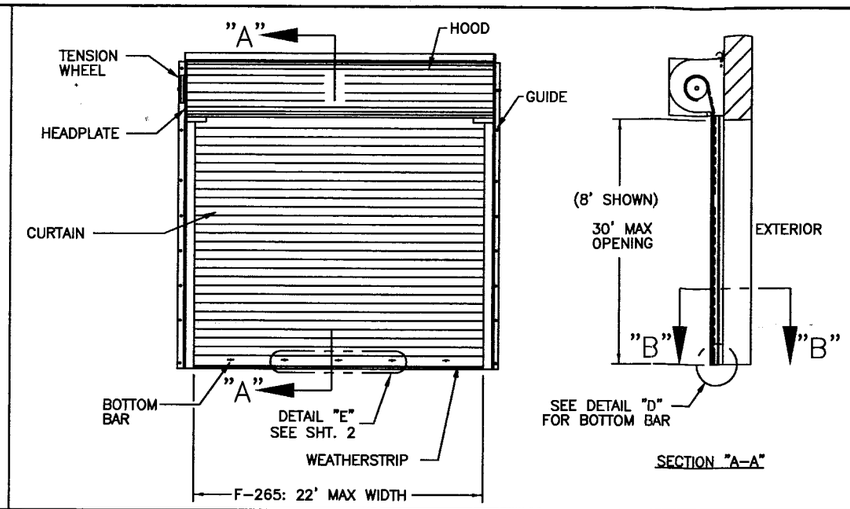
1. Code compliance (FBC 2007) and No interest letter prepared by Overhead Door Corporation dated 04/20/09, signed and sealed by LeRoy G. Krupke, P.E. ***"Submitted under NOA # 09-0324.09"***

11/03/10

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 10-0831.14
Expiration Date: September 16, 2014
Approval Date: November 24, 2010

NOTES

1. (−W/L) = NEGATIVE WINDLOAD
   (+W/L) = POSITIVE WINDLOAD
2. WALL ANGLES MAY BE WELDED TO STEEL JAMB. SEE SHEET 2 FOR DOOR WELD DETAIL
3. RATED DESIGN LOAD ±65 PSF.
4. CURTAIN MATERIAL: ASTM A−653, CS TYPE B. GUIDE MATERIAL: ASTM A−36
5. ALTERNATE CURTAIN MATERIAL: AISI−304 SS. MINIMUM YIELD 40,000 PSI.
6. CURTAIN MATERIAL SHALL BE GALVANIZED ACCORDING TO ASTM A−525 TO G40 MINIMUM.
7. THE DOOR MUST BE INSTALLED WITH THE TENSION WHEEL FACING THE INSIDE OF THE BUILDING.
8. PINS MUST BE ENGAGED AND CHAIN MUST BE HOOKED WHEN HURRICANE WINDS ARE ANNOUNCED
9. WINDLOCK MATERIAL: LOW CARBON CAST STEEL, GRADE 70−46 (485−250) PER ASTM A27. MIN TENSILE 70−KSI MIN YIELD 36−KSI. MIN ELONG 22%
10. WINDLOCKS ATTACHED TO EACH SLAT (CONTINUOUS)
11. RIVET SPECIFICATIONS: 1/4" DIAMETER RIVET, MINIMUM 1006 LOW−CARBON STEEL.

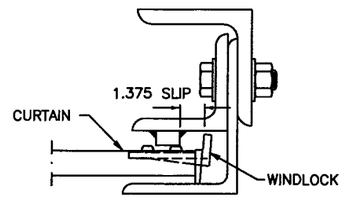


SECTION "A−A"

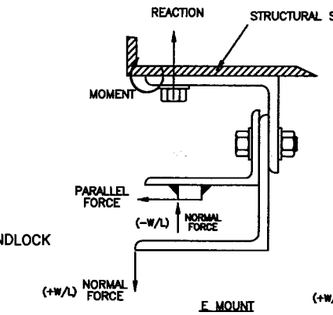
SHEET REVISION RECORD		
3	2	1
D	F	G

REVISIONS

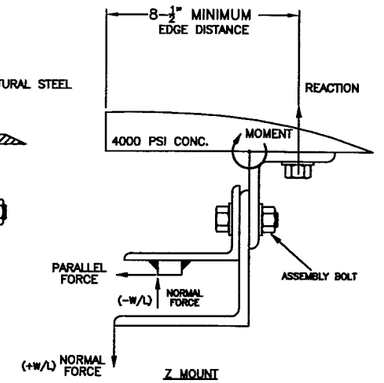
LETTER	DESCRIPTION	DATE	APPROVAL
E	REV PER EN 20807	6/16/06	LK
F	REV PER EN 20814	8/30/06	LK
G	REV PER ER 500692	07/10	SET



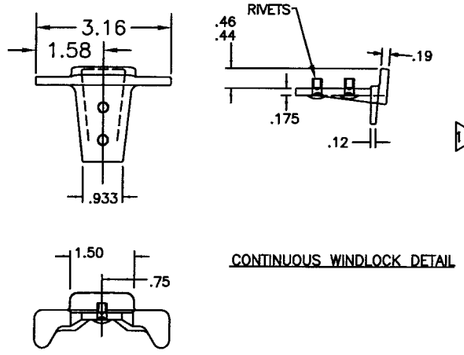
WINDLOCK/WINDBAR RELATIONSHIP DETAIL



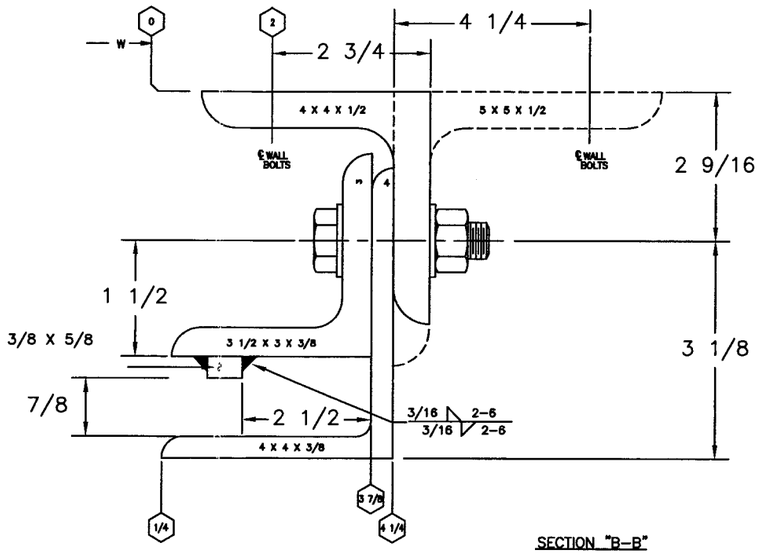
E MOUNT



Z MOUNT



CONTINUOUS WINDLOCK DETAIL



SECTION "B−B"
F−265 GUIDE

F−265 − DOOR SIZE REF. SUMMARY

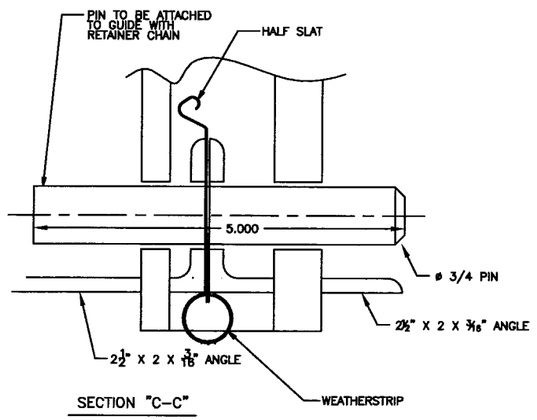
LBS/FT DOOR	(E−MOUNT) LOADS *		(Z−MOUNT) LOADS *	
HEIGHT	20 GA **	18 GA	20 GA **	18 GA
REACTION	9621	9454	3419	3369
NORMAL	715	715	715	715
PARALLEL	2710	2663	2710	2663

	ASSEMBLY BOLT	WALL BOLT STEEL JAMB	WALL ATTACHMENT CONCRETE JAMB
F−265	5/8" GRADE 5, 10" O.C.	5/8" GRADE 5, 12" O.C.	5/8", 5" EMB POWERS WEDGE BOLTS 8" O.C.

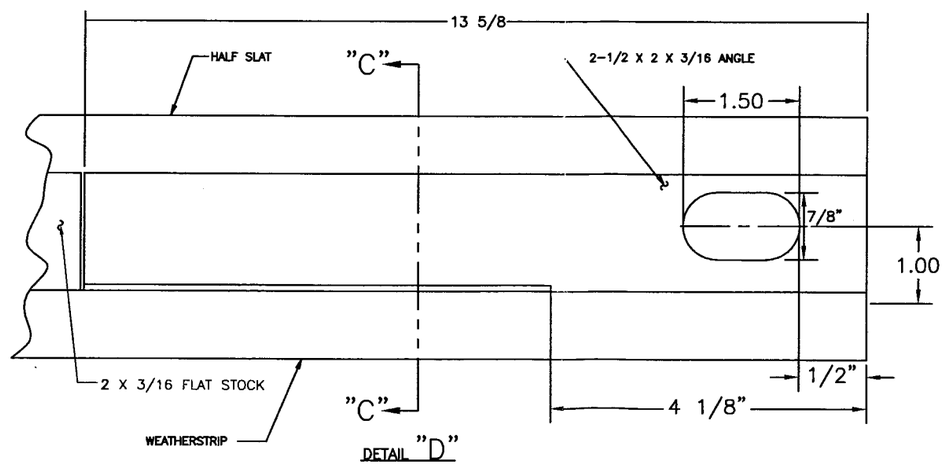
* 4000 PSI MINIMUM & 8−1/2" MINIMUM EDGE DISTANCE FOR ANCHOR

2 NOTE: FOR DETAILS ON WELDING GUIDES TO STEEL JAMBS SEE SHEET 2.

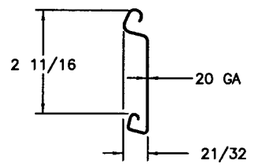
PIN MUST BE ENGAGED FOR DOOR TO WITHSTAND DESIGN LOADS



SECTION "C−C"



DETAIL "D"
BOTTOM BAR



F−265 SLAT
GAUGE OPTIONS: 20**, 18
** TESTED IN ACCORDANCE WITH DADE COUNTY PROTOCOLS TAS 201−94, TAS 202−94, AND TAS 203−94

SERIES 611/621 ARE EQUIVALENT CONSTRUCTION

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 10-0831.14
Expiration Date 07/16/2014
By
Miami Dade Product Control Division

8/25/10

OVERHEAD DOOR CORPORATION
2501 SOUTH STATE HWY 121 BUSINESS
LEWISVILLE, TX 75067
LeROY G. KRUPKE, P.E. #36580

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES TOLERANCES ON
DECIMAL DIMENSIONS: .X ± .03; .XX ± .010; .XXX ± .005
HOLE DIAMETERS: UNDER .501 +.004 −.000; .501 TO .625 +.005 −.000; OVER .625 +.006 −.000
ANGLES ± 0° 30'
FRACTIONS ± 1/16"
APPLIED FINISH: 5
UNIT OF MEASURE: N/A

OVERHEAD DOOR the original since 1921 DALLAS, TEXAS
MATERIAL: 4

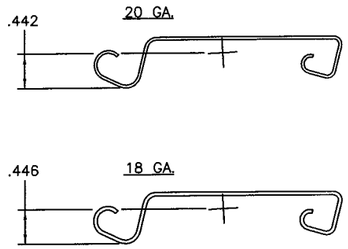
	NAME	DATE
DRAWN BY:	G FINERAN	8/8/03
CHECKED BY:	JD FAW	9/5/03
APPROVED BY:	L KRUPKE	9/5/03

DRAWING TITLE: SERIES 610/620 ROLLING SERVICE DOOR 22' DADE COUNTY
DRAWING NUMBER: D- 308133
SCALE: NONE
SHEET 1 OF 3

REVISIONS			
LETTER	DESCRIPTION	DATE	APPROVAL
D	REV PER EN 20807	6/16/06	LK
E	REV PER EN 20814	6/30/06	LK
F	REV PER ER 500692	8/25/10	SRT

NOTES

CALCULATIONS:



CURTAIN SLAT PITCH = 2.67 IN. OR 4.494 SLATS PER FOOT, PROPERTIES ON A PER FOOT BASIS:

	I(IN⁴)	A(IN²)	C(IN)
20 GA.	0.0377	0.8422	0.444
18 GA.	0.0494	1.0965	0.450

CALCULATIONS SHOWN FOR 20 GA. SLAT.

WINDLOCK SLIP DISTANCE= 1.375"/SIDE

W= DOOR WIDTH

W = 22 FT.

D = CURTAIN DEFLECTION

$D = [0.75\ (12)\ W\ (\text{WINDLOCK SLIP})]^{1/2}$

$D = [0.75\ (12)\ (22)\ 1.375]^{1/2}$

D = 16.5 IN.

S_Y = YIELD STRESS OF SLAT MATERIAL

S_Y = 40,000 PSI

E = MODULUS OF ELASTICITY

E = 29,000,000 PSI

Q_B = WINDLOAD HELD IN BENDING

$Q_B = \frac{2EID}{45W^4}$ OR $\frac{2S_YI}{3W^2C}$ (LESSER VALUE)

$Q_B = \frac{2(29,000,000)(0.0377)(16.5)}{45(22)^4}$

Q_B = 3.42

$Q_B = \frac{2(40,000)(0.0377)}{3(22^2)(0.444)}$

Q_B = 4.68

Q = 65 PSF

Q_T = WINDLOAD HELD IN TENSION

$Q_T = Q - Q_B$

$Q_T = 65 - 3.42$

Q_T = 61.78 PSF

$T_E = \frac{3Q_T W^2}{2D}$

T_E = 2710 LB/FT.

T_F = THRUST LOAD ON GUIDES PER FOOT OF HEIGHT.

$T_F = \frac{Q \cdot W}{2}$

T_F = 715 LB/FT.

T_S = TENSION/SLAT

$T_S = 2710/4.494$

T_S = 603 LB/SLAT

M_R = MAXIMUM RESULTANT MOMENT APPLIED TO JAMB (Z-MOUNT)

$M_R = 2710(4.44)+715(3.50)$

M_R = 14535 IN·LB

M_R = MAXIMUM RESULTANT MOMENT APPLIED TO JAMB (E-MOUNT)

$M_R = 2710(4.44)$

M_R = 12032 IN·LB

WINDLOCK FASTENERS

DESCRIPTION: SEMI-TUBULAR OVAL HEAD RIVET

MATERIAL: LOW CARBON STEEL, ZINC OR CADMIUM PLATED

SIZE: 1/4" X 7/16" LONG (.244" MIN. DIA.)

A_R = CROSS SECTIONAL AREA/RIVET

$A_R = \frac{\pi \cdot D^2}{4}$

A_R = 0.047 IN²

S_S = SHEAR STRESS ACROSS TWO END FASTENERS

$S_S = T_S/(2 \cdot A_R)$

$S_S = 603/(2 \cdot 0.047)$

S_S = 6414 PSI

WINDBAR WELDS

A_W = AREA OF WELD

A_W = LENGTH · FILLET WIDTH

$A_W = (2)(0.1875)$

A_W = 0.375 IN²

S_W = SHEAR STRESS ACROSS WELD

$S_W = (3\ \text{IN})(1\ \text{FT}/12\ \text{IN})(2710\ \text{LB/FT})/(0.375\ \text{IN}^2)$

S_W = 1807 PSI

WALL ATTACHMENT BOLTS (MAXIMUM LOAD)

STEEL JAMB-POSITIVE WINDLOAD (E-MOUNT)

R_B = WALL ATTACHMENT BOLT REACTION

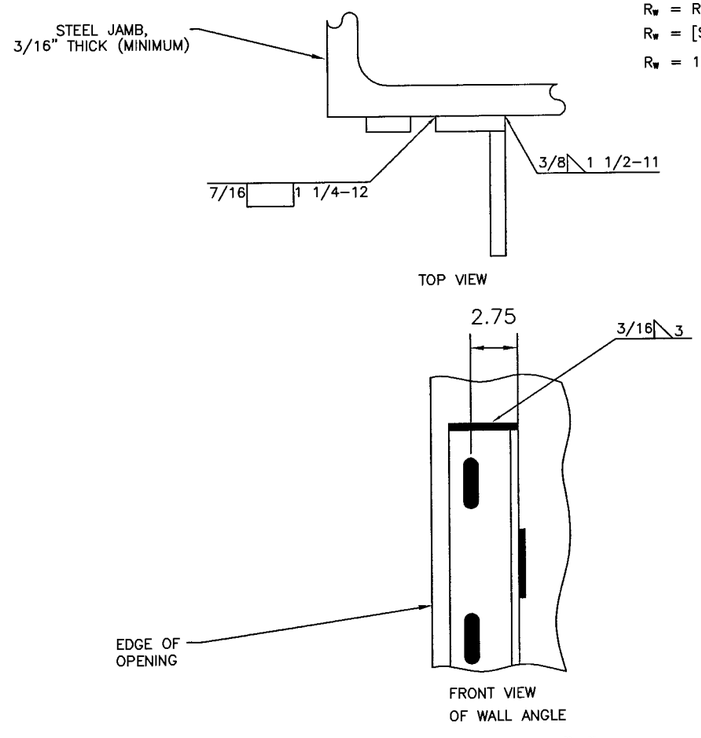
$R_B = 12032/1.25$

R_B = 9625 LB.

CONCRETE JAMB-POSITIVE WINDLOAD (Z-MOUNT)

$R_B = [(7/12)(14535)]/4.25$

R_B = 1995 LB.



DETAILS FOR WELDING "E" GUIDES TO STEEL JAMBS

"S" = W + 7 3/4"

SLAT LG = W + 5 1/4"

PIPE LG = W + 3 1/4"

BOTTOM BAR LG = W + 5 1/4" (COPES = 4")

WALL ATTACHMENT WELD

A_W = AREA OF WELD

$A_W = 2 \times 2 \times .375 \times .707$

A_W = 1.06 IN²

S_W = SHEAR STRESS ACROSS WELD

$S_W = 12/12\ (2710)/1.06$

S_W = 2556 PSI

T_W = TENSION STRESS FROM BENDING AND NORMAL LOADS

$T_W = T_F/A_W + M_R/[\text{WELD LENGTH} \times \text{WELD WIDTH ON ANGLE} \times \text{WELD SIZE} \times .707]$

$T_W = 12/12\ [715/1.06 + 14535/\ [2 \times 2.75 \times .375 \times .707]]$

T_W = 10642 PSI

R_W = RESULTANT WELD STRESS

$R_W = [S_W^2 + T_W^2]^{1/2}$

R_W = 10944 PSI

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 10-0831.14
Expiration Date 07/16/2014
By
Miami Dade Product Control Division

8/25/10

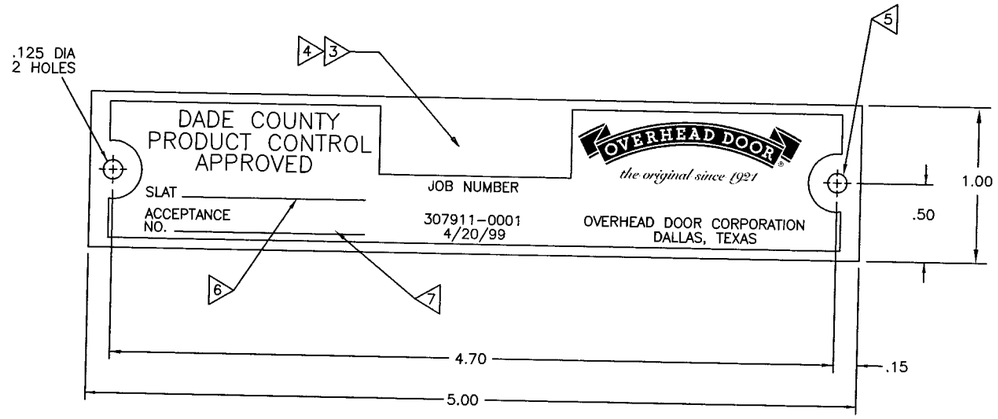
OVERHEAD DOOR CORPORATION
2501 SOUTH STATE HWY 121 BUSINESS
LEWISVILLE, TX 75067
LeROY G. KRUPKE, P.E. #36580

UNLESS OTHERWISE SPECIFIED			OVERHEAD DOOR the original since 1921 DALLAS, TEXAS	NAME	DATE	DRAWING TITLE: SERIES 610/620, ROLLING SERVICE DOOR 22 FT. DADE COUNTY
DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMAL DIMENSIONS: .XX= ± .03, .XXX= ± .005	HOLE DIAMETERS: UNDER .251+.004-.003; .251 TO .500+.005-.003; OVER .500+.008-.003	ANGLES ± 0° 30'; FRACTIONS ± 1/16"		DRAWN BY: G FINERAN	8/8/03	
			MATERIAL: 4	CHECKED BY: JD FAW	9/5/03	
			APPLIED FINISH: 5 / UNIT OF MEASURE: N/A	APPROVED BY: L KRUPKE	9/5/03	DRAWING NUMBER D-308133
						SCALE: NONE SHEET 2 OF 3

NOTES

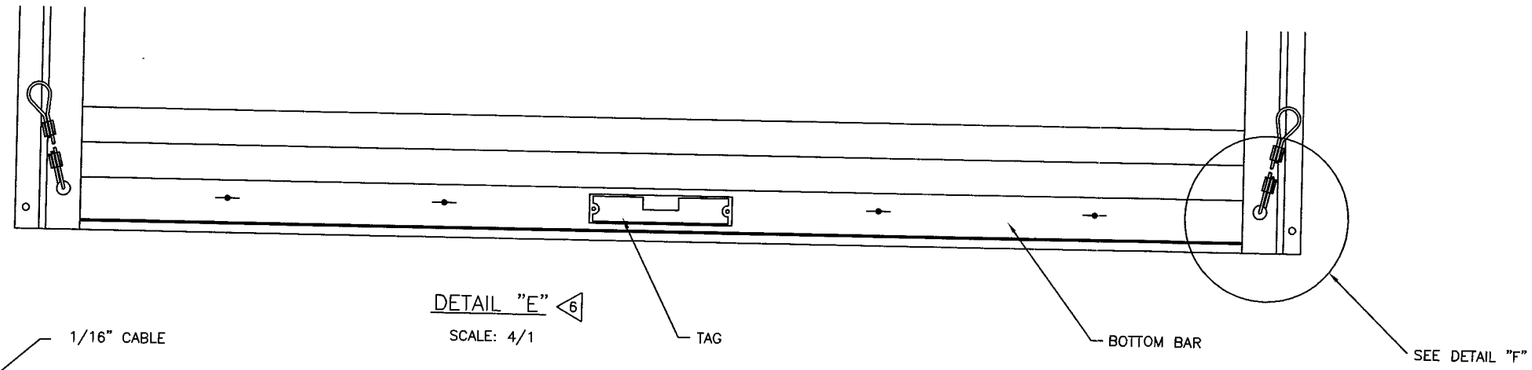
1. MATERIAL: ALUMINUM 3003 H14 (0.03 THICK) WITH TRANSPARENT KELSTRIP COVERING.
2. COLOR: HANSCHY RED CS 2311.
3. STAMP FACTORY ORDER NUMBER HERE.
4. A LETTER MUST BE STAMPED ON ROLLING FIRE DOORS TO IDENTIFY MANUFACTURING PLANT (I.E., USE "P" FOR PENNSYLVANIA).
5. FASTENER FOR TAG IS P/N 080276-1004(STEEL DRIVE SCREW). TAG WILL BE MOUNTED IN THE MIDDLE OF THE BOTTOM BAR.
6. STAMP SLAT TYPE HERE.
7. STAMP ACCEPTANCE NUMBER HERE.

REVISIONS			
LETTER	DESCRIPTION	DATE	APPROVAL
B	REV PER EN 20807	6/16/06	LK
C	REV PER EN 20814	6/30/06	LK
D	REV PER ER 500692	8/15/12	JFT



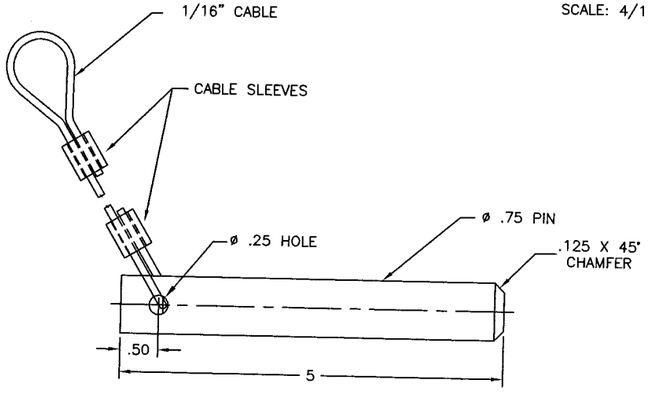
P/N 307911-0001 - DADE CO. APPROVAL TAG, ROLLING DOORS & GRILLES

SCALE: 2/1



DETAIL "E" 6

SCALE: 4/1



DETAIL "F"

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 10-0831.14
Expiration Date 09/16/2014
By
Miami Dade Product Control Division

8/25/10

OVERHEAD DOOR CORPORATION
2501 SOUTH STATE HWY 121 BUSINESS
LEWISVILLE, TX 75067
LeROY G. KRUPKE, P.E. #36580

UNLESS OTHERWISE SPECIFIED				NAME	DATE
DIMENSIONS ARE IN INCHES/TOLERANCES ON			OVERHEAD DOOR the original since 1921 DALLAS, TEXAS		
DECIMAL DIMENSIONS	HOLE DIAMETERS	ANGLES ± 0° 30'		DRAWN BY: M WOMACK	10/10/03
.XX= ± .03	UNDER .251+.004-.003	FRACTIONS ± 1/16"	MATERIAL: N/A	CHECKED BY: JD FAW	10/10/03
.XXX= ± .005	251 TO .500+.006-.003 OVER .500+.008-.003		APPLIED FINISH: N/A / UNIT OF MEASURE: N/A	APPROVED BY: L KRUPKE	10/10/03

DRAWING TITLE: SERIES 610/620, ROLLING SERVICE DOOR 22 FT. DADE COUNTY

DRAWING NUMBER D- 308133

SCALE: NOTED SHEET 3 OF 3