



**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) 375-2908**

**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: 22' Wide 610/620 Series Rolling Steel Door**

**APPROVAL DOCUMENT:** Drawing No. D-308133, titled "Series 610/620 Rolling Service Door 22 FT. Dade County", sheets 1 through 3 of 3, prepared by Overhead Door Corporation, signed sealed on 03/19/09 by L. G. Krupke, P.E., dated 9/5/3 & 8/8/3 with last revision on 06/30/06, bearing the Miami-Dade County Product Control Renewal 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**

**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 or MDCPCA", 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 renews NOA # 05-1003.22 consists of this page 1, evidence page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Mohammed Iqbal Shaikh, P.E.**



**NOA No 09-0324.09  
Expiration Date: September 16, 2014  
Approval Date: June 17, 2009  
Page 1**

**Overhead Door Corporation.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. D-308133, prepared by Overhead Door Corporation, titled Series 610/620 Rolling Service Door 22 FT. Dade County, dated 9/5/3 & 8/8/3, with last revision on 06/30/06, sheets 1 through 3 of 3, signed and sealed by L. G. Krupke, PE. on 03/19/09.

**B. TESTS**

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 "22' x 10" Steel Roll-Up Service Door", prepared by Architectural Testing, Inc., report No. ATI 01-43463.03, dated 09/10/03 revised on 07/15/04, signed and sealed by L. G. Krupke, PE.
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**

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. Building code Compliance Office.

**E. STATEMENTS**

1. Code compliance and No interest letter prepared by Overhead Door Corporation, signed and sealed by L. G. Krupke, PE on 04/20/09.
2. No change letter prepared by Overhead Door Corporation, signed and sealed by L. G. Krupke, PE on 04/20/09.

**F. OTHER**

NOA # 05-1003.22

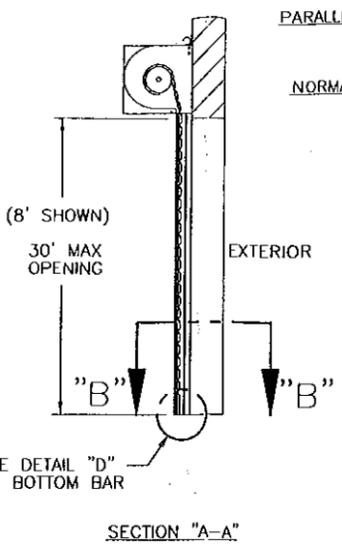
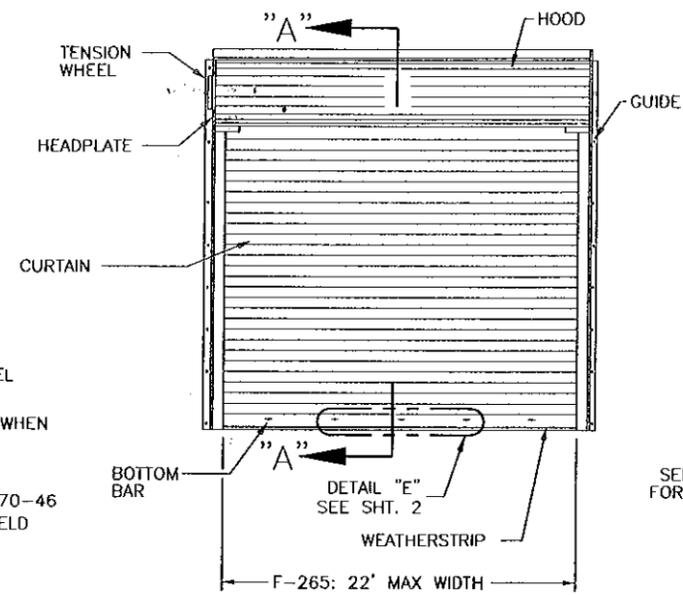


Mohammed Iqbal Shaikh P.E.  
Senior Product Control Examiner  
NOA No 09-0324.09

Expiration Date: September 16, 2014  
Approval Date: June 17, 2009

**NOTES**

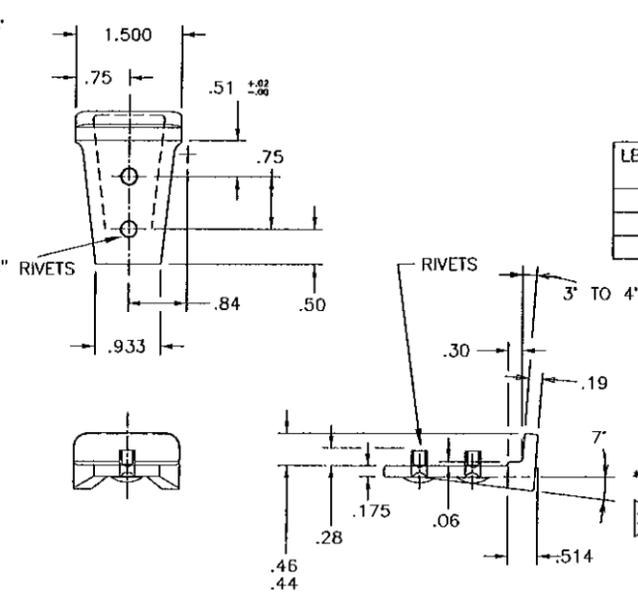
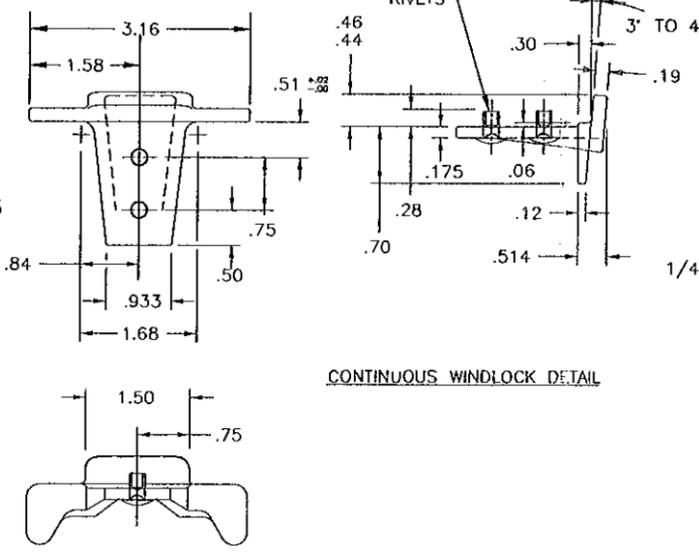
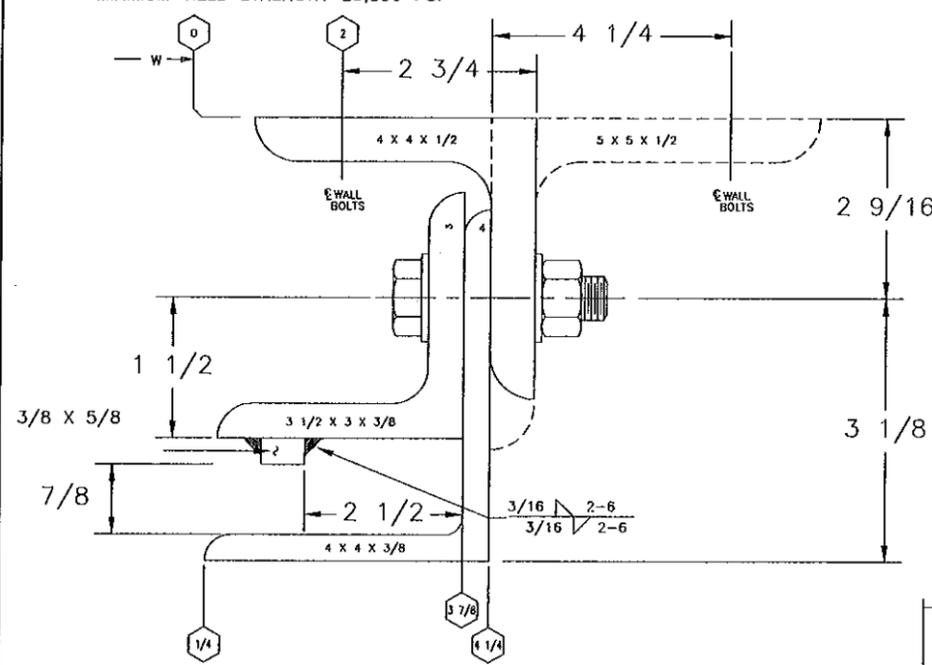
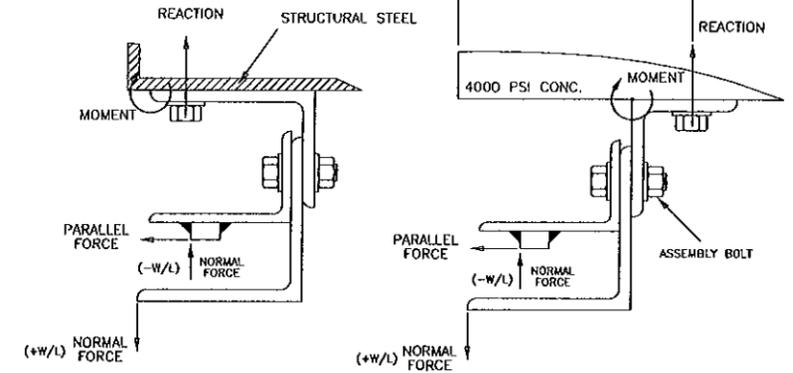
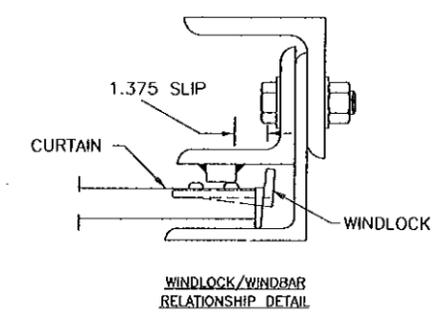
1. (-W/L) = NEGATIVE WINDLOAD  
(+W/L) = POSITIVE WINDLOAD
2. WALL ANGLES MAY BE WELDED TO STEEL JAMB.  
SEE SHEET 2 FOR WELDING DETAILS.
3. RATED DESIGN LOAD ±65 PSF.
4. CURTAIN MATERIAL: ASTM A-446 GRADE C  
GUIDE MATERIAL: ASTM A-36
5. ALTERNATE CURTAIN MATERIAL: AISI-304 SS.  
MINIMUM YIELD 40,000 PSI.
6. CURTAIN MATERIAL SHALL BE GALVANIZED ACCORDING  
TO ASTM A-525 TO G90 OR AN EQUIVALENT SURFACE  
COATING APPROVED AND TESTED AS REQUIRED BY THE  
OVERHEAD DOOR CHECK-LIST BY THE DADE COUNTY  
BUILDING CODE COMPLIANCE OFFICE.
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. WIND LOCKS ARE REQUIRED ON EACH SLAT
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, ASTM 1012,  
MINIMUM TENSILE STRENGTH-48,318 PSI  
MINIMUM YIELD STRENGTH-29,890 PSI



**PARALLEL FORCE:** THE CATENARY FORCE OF THE CURTAIN APPLIED TO THE WINDBAR  
IN POUNDS PER FOOT OF HEIGHT.

**NORMAL FORCE:** THE FORCE NORMAL TO THE DOOR OPENING IN  
POUNDS PER FOOT OF HEIGHT.

**MOMENT:** THE RESOLUTION OF THE PARALLEL & NORMAL FORCES TO A POINT  
CORRESPONDING TO THE HEEL OF THE WALL ANGLE IN INCH/POUNDS  
PER FOOT OF DOOR HEIGHT.



F-265 - DOOR SIZE REF. SUMMARY

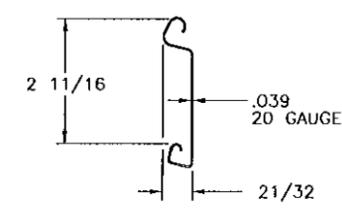
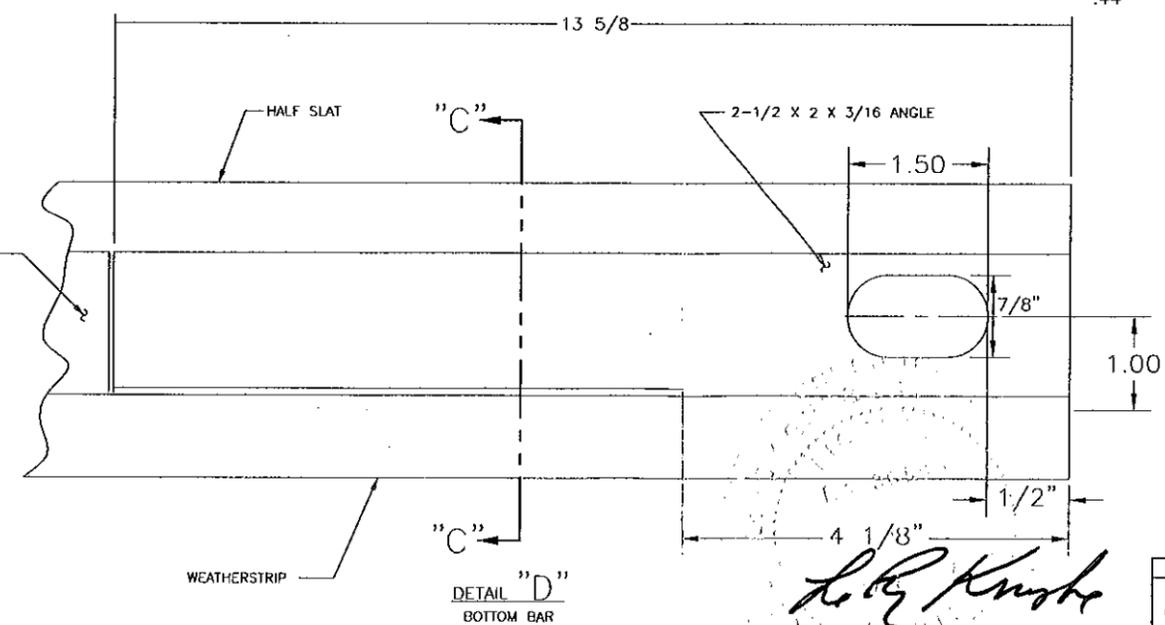
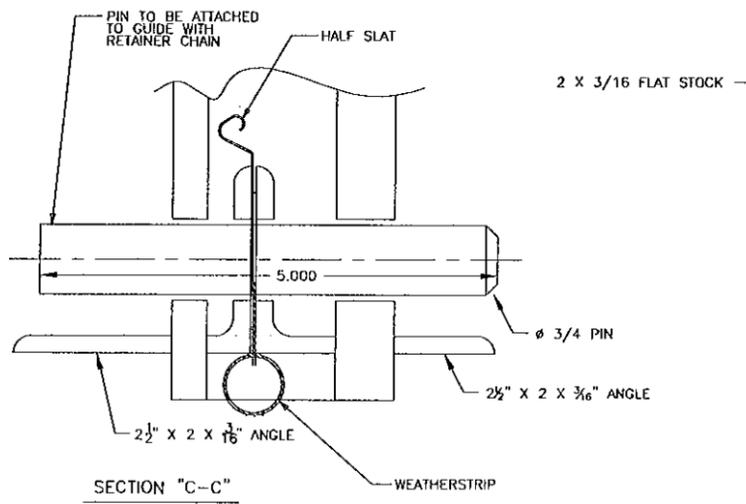
LBS/FT DOOR HEIGHT	(E-MOUNT) LOADS *		(Z-MOUNT) LOADS *	
	20 GA **	18 GA	20 GA **	18 GA
REACTION	9621	9454	3419	3369
NORMAL	715	715	715	715
PARALLEL	2710	2663	2710	2663

\* LOADS - PER FOOT OF HEIGHT

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

**\*\*PIN MUST BE ENGAGED FOR DOOR TO WITHSTAND DESIGN LOADS\*\***



\*\* TESTED IN ACCORDANCE WITH DADE COUNTY PROTOCOLS PA 201-94, PA 202-94, AND PA 203-94

SERIES 611/621 ARE EQUIVALENT CONSTRUCTION

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

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 09-0324-09 Expiration Date 09/16/14  
By *M. Krupke*  
Miami Dade Product Control Division

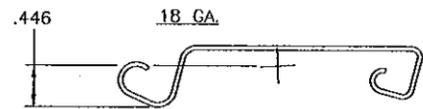
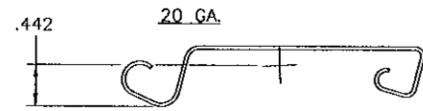
BUILDING CODE COMPLIANCE ADMINISTRATIVE DIVISION  
 RECEIVED  
 2009 MAR 23 PM 12:20

*LeRoy Krupke*  
3-19-09

UNLESS OTHERWISE SPECIFIED			DRAWING TITLE:	
DECIMAL DIMENSIONS	HOLE DIAMETERS	ANGLES ± 0° 30'	NAME	DATE
± .03	UNDER .250 ± .004	FRACTIONS ± 1/16"	G FINERAN	8/8/03
± .005	251 TO 500 ± .004		CHECKED BY: JD FAW	9/5/03
	501 TO 1000 ± .005		APPROVED BY: L KRUPKE	9/5/03
	1001 TO 2000 ± .006		UNIT OF MEASURE: N/A	
	2001 TO 5000 ± .008		DRAWING NUMBER: D-308133	
	5001 TO 10000 ± .010		SCALE: NONE	SHEET 1 OF 3

REVISIONS			
LETTER	DESCRIPTION	DATE	APPROVAL
C	REV PER EN 20685	8/17/04	LK
D	REV PER EN 20807	6/16/06	LK
E	REV PER EN 20814	6/30/06	LK

CALCULATIONS:



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

	I(IN <sup>4</sup> )	A(IN <sup>2</sup> )	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 (WINDLOCK SLIP)]<sup>1/2</sup>

D = [0.75 (12) (22) 1.375]<sup>1/2</sup>

D = 16.5 IN.

S<sub>y</sub> = YIELD STRESS OF SLAT MATERIAL

S<sub>y</sub> = 40,000 PSI

E = MODULUS OF ELASTICITY

E = 29,000,000 PSI

Q<sub>b</sub> = WINDLOAD HELD IN BENDING

Q<sub>b</sub> =  $\frac{2EID}{45W^4}$  OR  $\frac{2S_y I}{3W^2 C}$  (LESSER VALUE)

Q<sub>b</sub> =  $\frac{2(29,000,000)(0.0377)(16.5)}{45(22)^4}$

Q<sub>b</sub> = 3.42

Q<sub>b</sub> =  $\frac{2(40,000)(0.0377)}{3(22^2)(0.444)}$

Q<sub>b</sub> = 4.68

Q = 65 PSF

Q<sub>t</sub> = WINDLOAD HELD IN TENSION

Q<sub>t</sub> = Q - Q<sub>b</sub>

Q<sub>t</sub> = 65 - 3.42

Q<sub>t</sub> = 61.78 PSF

T<sub>c</sub> =  $\frac{3Q_t W^2}{2D}$

T<sub>c</sub> = 2710 LB/FT.

T<sub>f</sub> = THRUST LOAD ON GUIDES PER FOOT OF HEIGHT.

T<sub>f</sub> =  $\frac{Q \cdot W}{2}$

T<sub>f</sub> = 715 LB/FT.

T<sub>s</sub> = TENSION/SLAT

T<sub>s</sub> = 2710/4.494

T<sub>s</sub> = 603 LB/SLAT

M<sub>z</sub> = MAXIMUM RESULTANT MOMENT APPLIED TO JAMB (Z-MOUNT)

M<sub>z</sub> = 2710(4.44) + 715(3.50)

M<sub>z</sub> = 14535 IN·LB

M<sub>e</sub> = MAXIMUM RESULTANT MOMENT APPLIED TO JAMB (E-MOUNT)

M<sub>e</sub> = 2710(4.44)

M<sub>e</sub> = 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<sub>r</sub> = CROSS SECTIONAL AREA/RIVET

A<sub>r</sub> =  $\frac{\pi \cdot D^2}{4}$

A<sub>r</sub> = 0.047 IN<sup>2</sup>

S<sub>s</sub> = SHEAR STRESS ACROSS TWO END FASTENERS

S<sub>s</sub> = T<sub>s</sub> / (2 · A<sub>r</sub>)

S<sub>s</sub> = 603 / (2 · 0.047)

S<sub>s</sub> = 6414 PSI

WINDBAR WELDS

A<sub>w</sub> = AREA OF WELD

A<sub>w</sub> = LENGTH · FILLET WIDTH

A<sub>w</sub> = (2)(0.1875)

A<sub>w</sub> = 0.375 IN<sup>2</sup>

S<sub>w</sub> = SHEAR STRESS ACROSS WELD

S<sub>w</sub> = (3 IN)(1 FT/12 IN)(2710 LB/FT) / (0.375 IN<sup>2</sup>)

S<sub>w</sub> = 1807 PSI

WALL ATTACHMENT BOLTS (MAXIMUM LOAD)

STEEL JAMB-POSITIVE WINDLOAD (E-MOUNT)

R<sub>b</sub> = WALL ATTACHMENT BOLT REACTION

R<sub>b</sub> = 12032/1.25

R<sub>b</sub> = 9625 LB.

CONCRETE JAMB-POSITIVE WINDLOAD (Z-MOUNT)

R<sub>b</sub> = [(7/12)(14535)]/4.25

R<sub>b</sub> = 1995 LB.

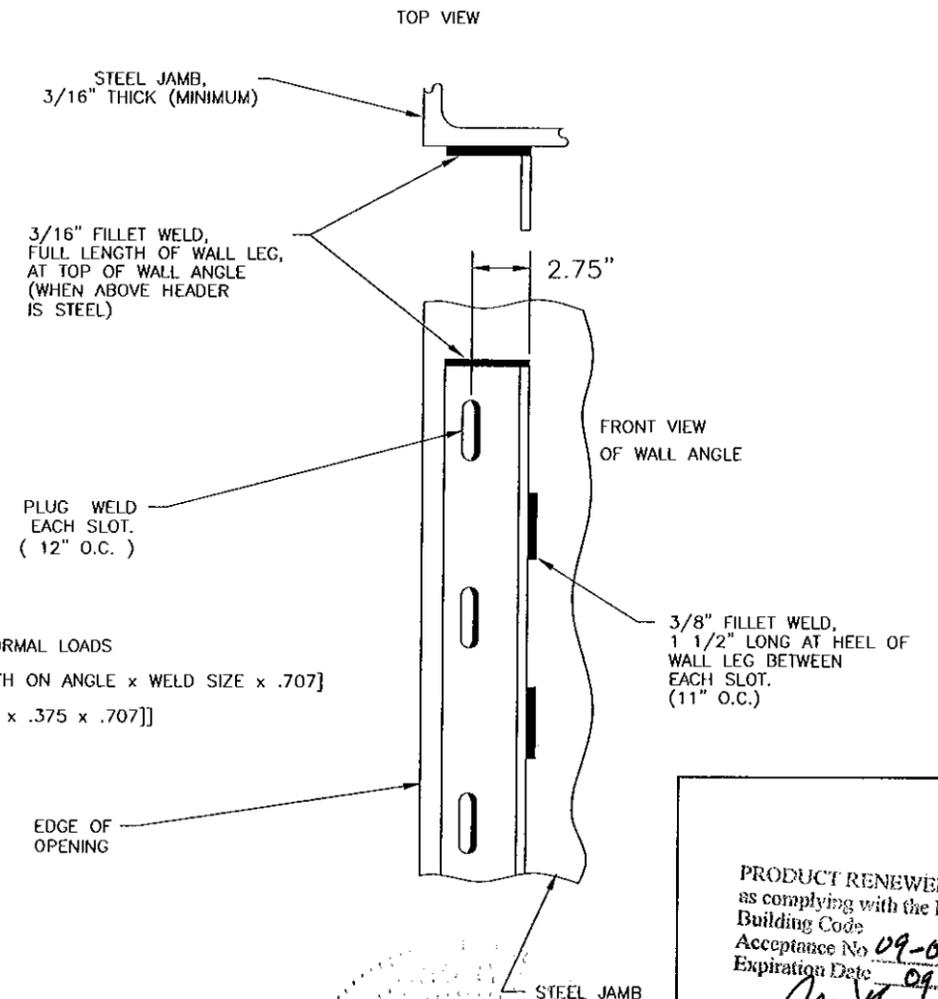
"S" = W + 7 3/4"

SLAT LG = W + 5 1/4"

PIPE LG = W + 3 1/4"

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

DETAILS FOR WELDING "E" GUIDES TO STEEL JAMBS



WALL ATTACHMENT WELD

A<sub>w</sub> = AREA OF WELD

A<sub>w</sub> = 2 x 2 x .375 x .707

A<sub>w</sub> = 1.06 IN<sup>2</sup>

S<sub>w</sub> = SHEAR STRESS ACROSS WELD

S<sub>w</sub> = 12/12 (2710)/1.06

S<sub>w</sub> = 2556 PSI

T<sub>w</sub> = TENSION STRESS FROM BENDING AND NORMAL LOADS

T<sub>w</sub> = T<sub>f</sub> / A<sub>w</sub> + M<sub>z</sub> / [WELD LENGTH x WELD WIDTH ON ANGLE x WELD SIZE x .707]

T<sub>w</sub> = 12/12 [715/1.06 + 14535 / [2 x 2.75 x .375 x .707]]

T<sub>w</sub> = 10642 PSI

R<sub>w</sub> = RESULTANT WELD STRESS

R<sub>w</sub> = [S<sub>w</sub><sup>2</sup> + T<sub>w</sub><sup>2</sup>]<sup>1/2</sup>

R<sub>w</sub> = 10944 PSI

PRODUCT RENEWED as complying with the Florida Building Code  
 Acceptance No. 09-0324-09  
 Expiration Date 09.16.14  
 By *[Signature]*  
 Miami Dade Product Control Division

*[Signature]*  
 3-19-09

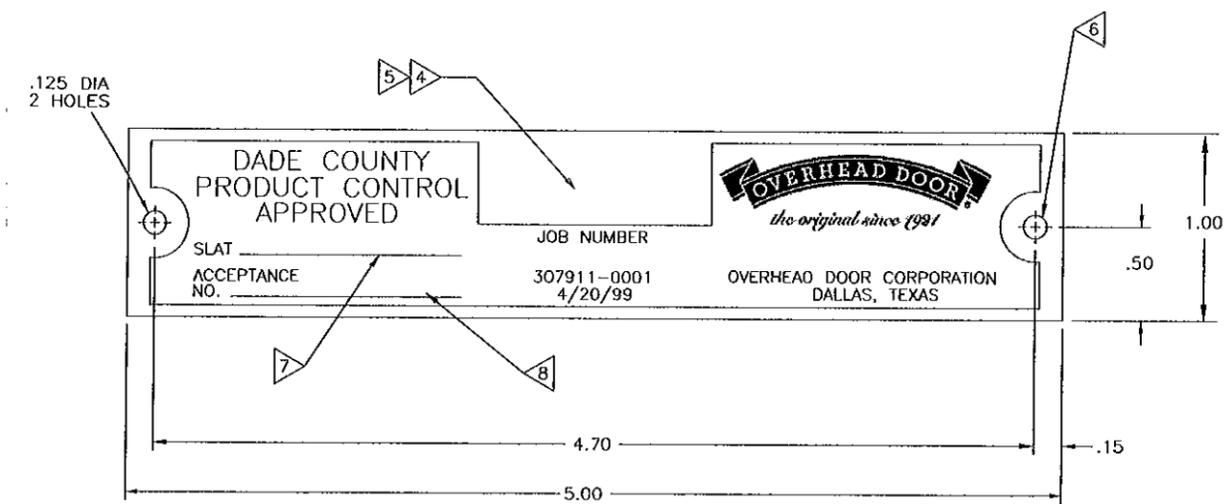
OVERHEAD DOOR CORPORATION  
 2501 SOUTH STATE HWY 121 BUSINESS  
 LEWISVILLE, TX 75067  
 LeROY G. KRUPKE, P.E. #36580

UNLESS OTHERWISE SPECIFIED			NAME		DATE		DRAWING TITLE:	
DECIMAL DIMENSIONS	HOLE DIAMETERS	ANGLES ± 0° 30'	DRAWN BY:	G FINERAN	8/8/03	SERIES 610/620, ROLLING SERVICE DOOR 22 FT. DADE COUNTY		
±.01	±.001	FRACTIONS ± 1/16"	CHECKED BY:	JD FAW	9/5/03	DRAWING NUMBER D-308133		
±.005	±.0005	OVER 5000-008-003	APPROVED BY:	L KRUPKE	9/5/03	SCALE:	NONE	SHEET 2 OF 3

NOTES

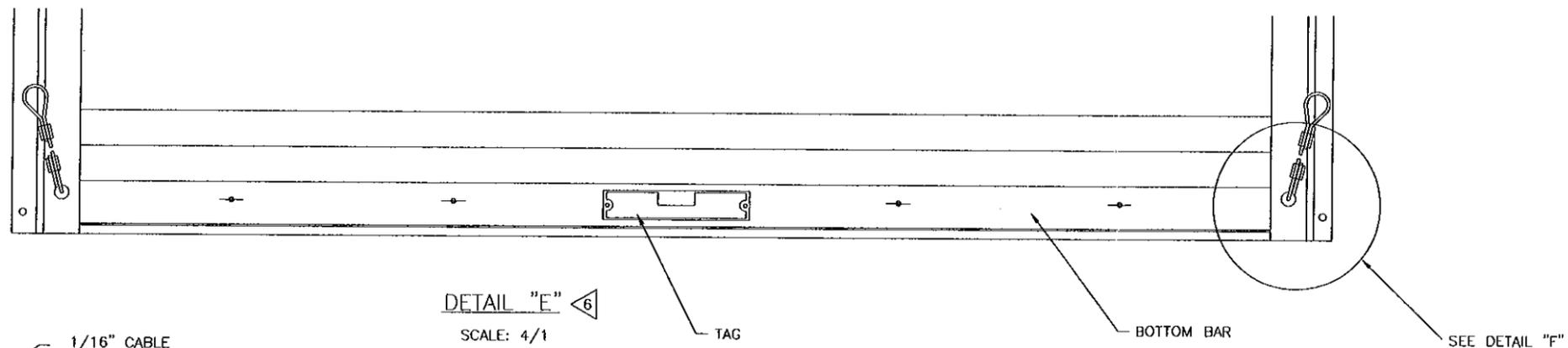
1. MATERIAL: ALUMINUM 3003 H14 (0.03 THICK) WITH TRANSPARENT KELSTRIP COVERING.
2. COLOR: HANSCHY RED CS 2311.
3. SOURCE: OHD ADVERTISING AND MERCHANDISING  
1900 CROWN DRIVE  
FARMERS BRANCH, TX 75234
4. STAMP FACTORY ORDER NUMBER HERE.
5. A LETTER MUST BE STAMPED ON ROLLING FIRE DOORS TO IDENTIFY MANUFACTURING PLANT (I.E., USE "P" FOR PENNSYLVANIA).
6. FASTENER FOR TAG IS P/N 080276-1004(STEEL DRIVE SCREW). TAG WILL BE MOUNTED IN THE MIDDLE OF THE BOTTOM BAR.
7. STAMP SLAT TYPE HERE.
8. STAMP ACCEPTANCE NUMBER HERE.

REVISIONS			
LETTER	DESCRIPTION	DATE	APPROVAL
A	REV PER EN 20685	8/17/04	LK
B	REV PER EN 20807	6/16/06	LK
C	REV PER EN 20814	6/30/06	LK

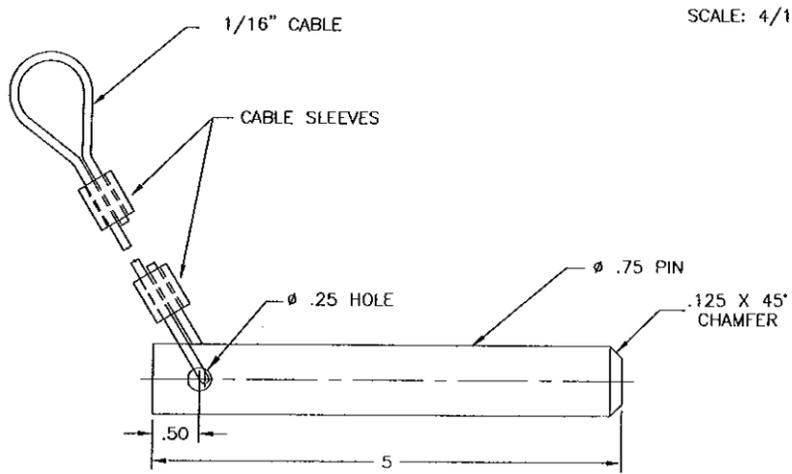


P/N 307911-0001 - DADE CO. APPROVAL TAG, ROLLING DOORS & GRILLES

SCALE: 2/1



DETAIL "E" SCALE: 4/1



DETAIL "F"

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No 09-0324-09  
Expiration Date 09/16/14  
By M. Krupke  
Miami Dade Product Control  
Division

*L. G. Krupke*  
3-19-09

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

UNLESS OTHERWISE SPECIFIED			OVERHEAD DOOR CORPORATION		DATE		DRAWING TITLE:	
DECIMAL DIMENSIONS	HOLE DIAMETERS	ANGLES ± 1° 30'	MATERIAL:	UNIT OF MEASURE:	NAME	DATE	DRAWN BY:	ROLLING SERVICE DOOR
.001 ± .001	UNDER 2511-004-003	FRACTIONS ± 1/16"	N/A	N/A	M WOMACK	10/10/03	M WOMACK	22 FT. DADE COUNTY
.002 ± .002	2511 251 5001 004-003		APPLIED FINISH:		CHECKED BY:	10/10/03	JD FAW	DRAWING NUMBER
	OVER 5001-008-003		N/A		APPROVED BY:	10/10/03	L KRUPKE	D = 308133
								SCALE: NOTED SHEET 3 OF 3