



**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: 10' Wide Rolling Steel Door**

**APPROVAL DOCUMENT:** Drawing No. D-308123, titled "Series 610 Rolling Service Door 10' Dade County", sheets 1 through 3 of 3, prepared by Overhead Door Corporation, signed sealed 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 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**

**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 revises NOA # 03-1015.03 consists of this page 1, evidence page as well as approval document mentioned above.

The submitted documentation was reviewed by **Candido F. Font, PE.**



*Candido F. Font*  
09/28/06

**NOA No 05-1003.23  
Expiration Date: September 16, 2009  
Approval Date: September 28, 2006  
Page 1**

**Overhead Door Corporation.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. D-308123, prepared by Overhead Door Corporation, titled Series 610 Rolling Service Door 10' 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.

**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 "10' x 10" Steel Roll-Up Service Door", prepared by Architectural Testing, Inc., report No. ATI 01-43463.01, dated 09/05/03 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 22, 20 & 18 Gage Rolling Garage Door, prepared by Overhead Door Corporation on sheet 2 of 3, signed and sealed by L. G. Krupke, PE.

**D. QUALITY ASSURANCE**

1. Building code Compliance Office.

**E. STATEMENTS**

1. Code compliance and No interest letter prepared by Overhead Door Corporation on 10/03/03 signed and sealed by L. G. Krupke, PE and notarized by M. G. Bettes.

**F. MATERIAL CERTIFICATIONS**

N/A

  
09/28/06  
Candido F. Font, PE

Senior Product Control Examiner

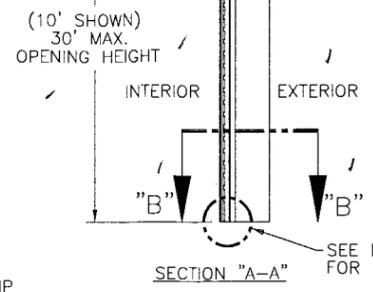
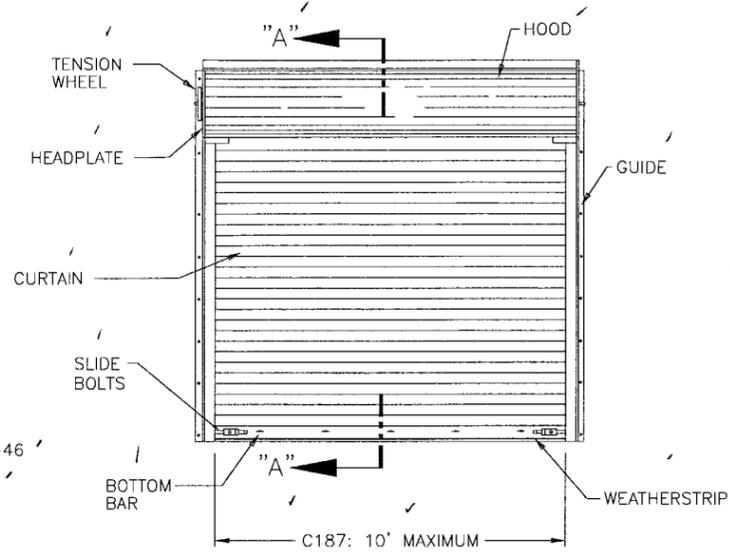
NOA No 05-1003.23

Expiration Date: September 16, 2009

Approval Date: September 28, 2006

**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-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. SLIDE BOLTS 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, ASTM 1012,  
MINIMUM TENSILE STRENGTH-48,318 PSI  
MINIMUM YIELD STRENGTH-29,890 PSI

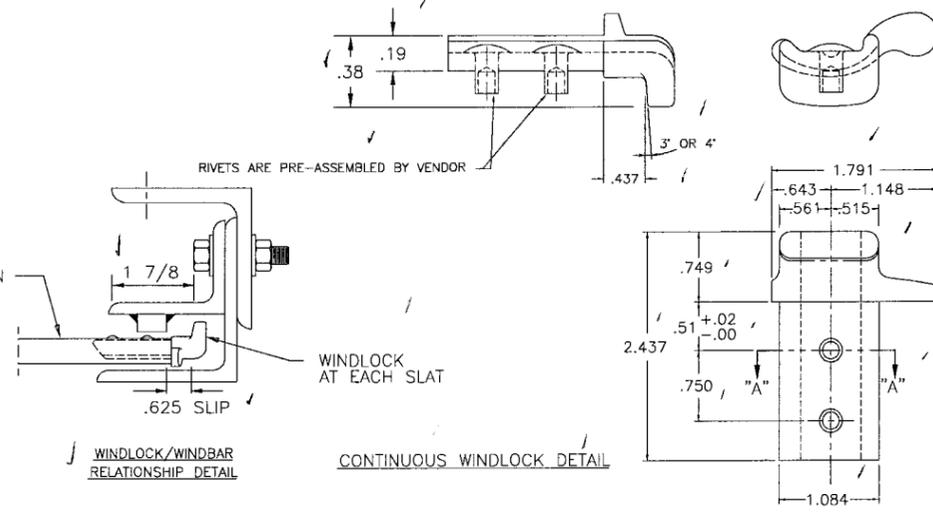
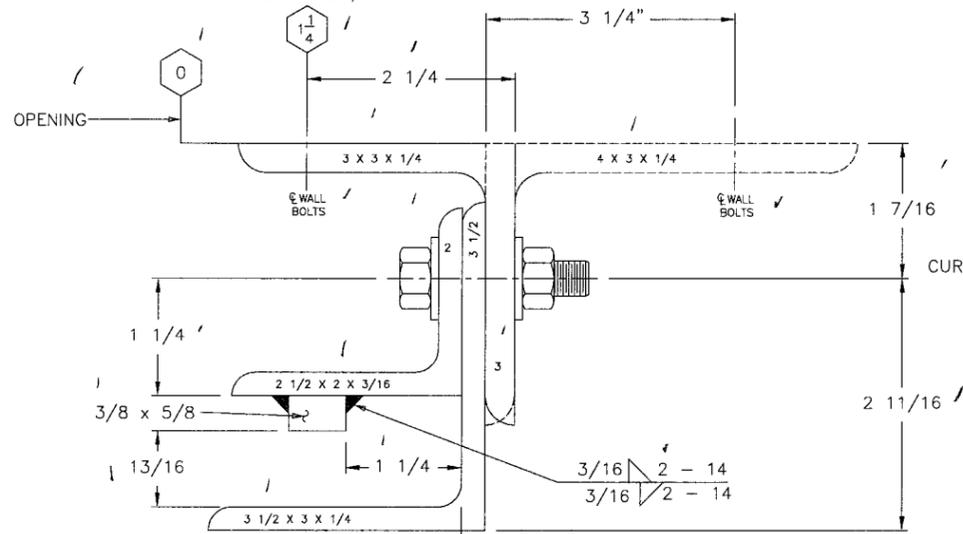
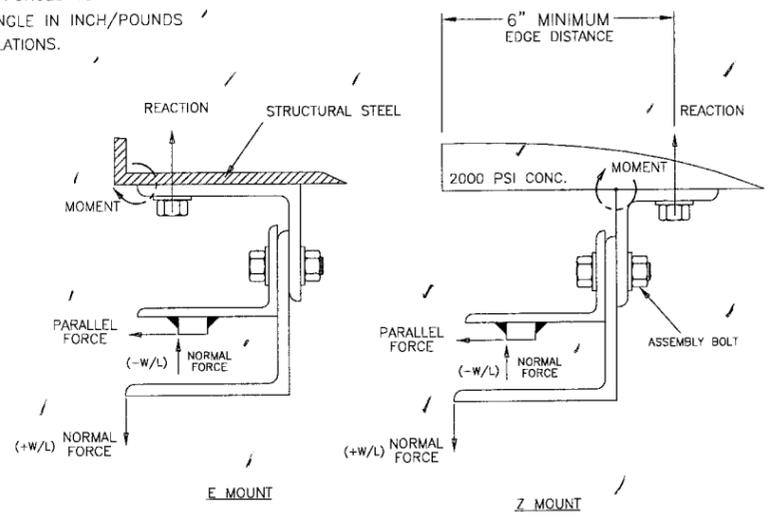


**PARALLEL FORCE:** THE CATENARY FORCE OF THE CURTAIN APPLIED TO THE WINDBAR IN POUNDS PER FOOT OF HEIGHT. SEE  $T_c$  IN CALCULATIONS.

**NORMAL FORCE:** THE FORCE NORMAL TO THE DOOR OPENING IN POUNDS PER FOOT OF HEIGHT. SEE  $T_r$  IN CALCULATIONS.

**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. SEE  $M_e$  IN CALCULATIONS.

SHEET REVISION RECORD			REVISIONS		
LETTER	DESCRIPTION	DATE	APPROVAL	LETTER	DESCRIPTION
3				D	REV PER EN 20771
2				E	REV PER EN 20807
1				F	REV PER EN 20814



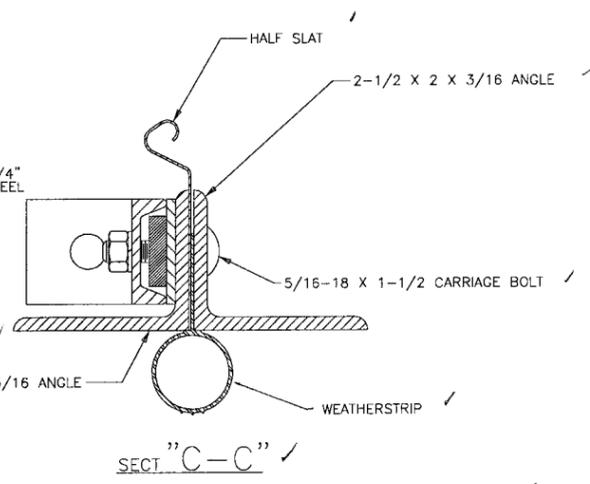
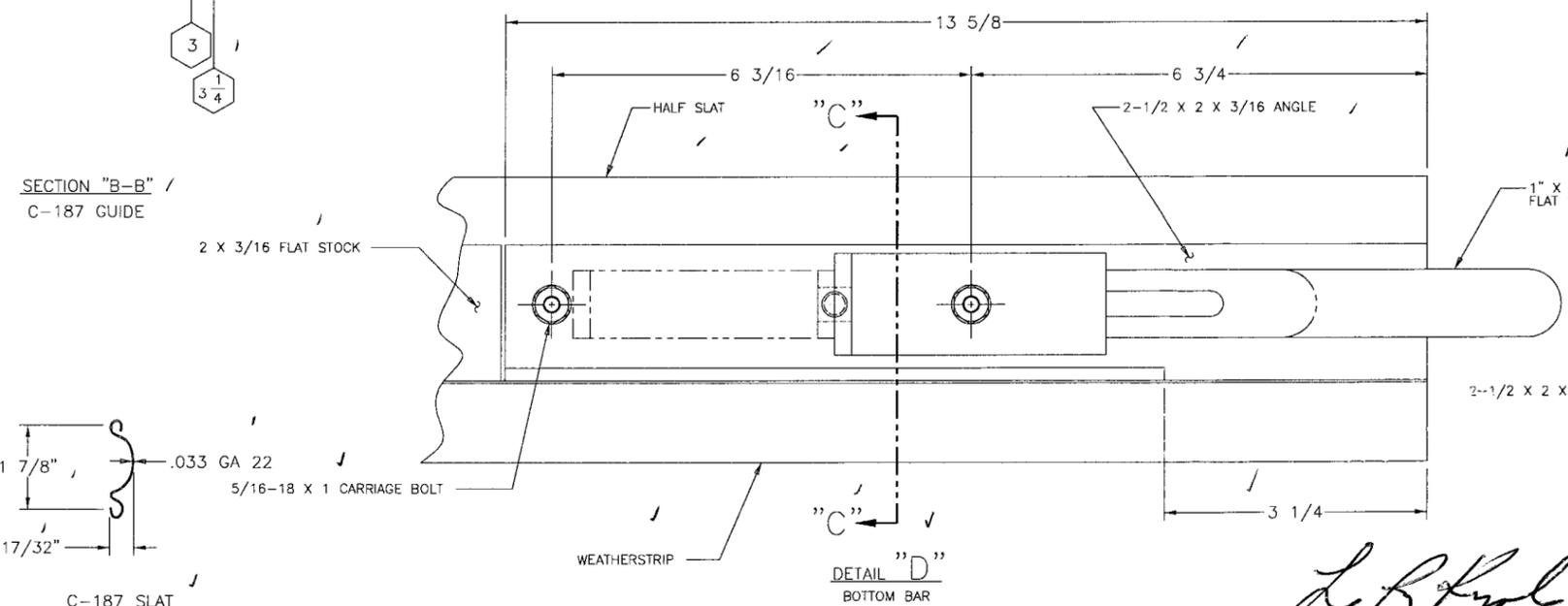
C-187 - DOOR SIZE REF. SUMMARY

LBS/FT DOOR HEIGHT	(E-MOUNT) LOADS			(Z-MOUNT) LOADS *		
	22 GA **	20 GA	18 GA	22 GA **	20 GA	18 GA
REACTION	4182	3933	3333	1115	1057	919
NORMAL	325	325	325	325	325	325
PARALLEL	958	897	750	958	897	750

\* LOADS - PER FOOT OF HEIGHT

	ASSEMBLY BOLT	WALL BOLT STEEL JAMB	WALL BOLT CONCRETE JAMB *
C-187	3/8" GRADE 5, 12" O.C.	3/8" GRADE 5, 11" O.C.	1/2", 5" EMB POWERS BOLT OR 1/2", 4" EMB POWERS WEDGE BOLT 11" O.C.

\* 2000 PSI MINIMUM & 6" MINIMUM EDGE DISTANCE FOR ANCHORS



05-1003.23  
09/16/09

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

SERIES 611 IS EQUIVALENT CONSTRUCTION

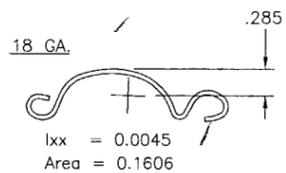
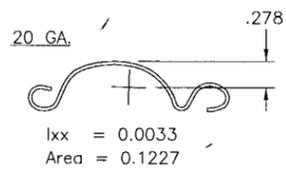
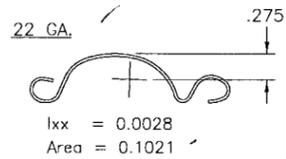
C-187 SLAT  
GAUGE OPTIONS: 22 \*\*, 20, 18  
\*\* TESTED IN ACCORDANCE WITH DADE COUNTY  
PROTOCOLS PA 201-94, PA 202-94, AND PA 203-94

*L. Krupke*  
6-30-06

UNLESS OTHERWISE SPECIFIED		OVERHEAD DOOR		DALLAS, TEXAS		NAME		DATE		DRAWING TITLE:	
DECIMAL DIMENSIONS	HOLES	DIAMETERS	ANGLES	± 0° 30'	MATERIAL:	APPLIED FINISH:	UNIT OF MEASURE:	APPROVED BY:	DATE	DRAWING NUMBER	SHEET
± .03	UNDER .251	± .004	± .003	FRACTIONS	FRACCTIONS	N/A	N/A	JD FAW	9/5/03	D-308123	1 OF 3
± .005	OVER .251	± .008	± .003						9/5/03		

REVISIONS			
LETTER	DESCRIPTION	DATE	APPROVAL
C	REV PER EN 20685	8/27/04	CCB
D	REV PER EN 20807	6/16/06	LK
E	REV PER EN 20814	6-30-06	JL

CALCULATIONS:



CURTAIN SLAT PITCH = 1.90 IN. OR 6.316 SLATS PER FOOT, PROPERTIES ON A PER FOOT BASIS:

	I(IN <sup>4</sup> )	A(IN <sup>2</sup> )	C(IN)
22 GA.	0.0177	0.6461	0.275
20 GA.	0.0208	0.7712	0.276
18 GA.	0.0265	.9953	0.278

CALCULATIONS SHOWN FOR 22 GA. SLAT.

WINDLOCK SLIP DISTANCE = 0.625 IN./SIDE

W = DOOR WIDTH

W = 10 FT.

D = CURTAIN DEFLECTION

D = [0.75 (12) W (WINDLOCK SLIP)]<sup>1/2</sup>

D = [0.75 (12) (10) (0.625)]<sup>1/2</sup>

D = 7.50 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> =  $\frac{2EI_D}{45W^4}$  OR  $\frac{2S_y I}{3W^2 C}$  (LESSER VALUE)

Q<sub>b</sub> =  $\frac{2(29,000,000)(0.0177)(7.50)}{45(10)^4}$

Q<sub>b</sub> = 17.11 PSF

Q<sub>b</sub> =  $\frac{2(40,000)(0.0177)}{3(10^2)(0.275)}$

Q = 65 PSF

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

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

Q<sub>r</sub> = 65 - 17.11

Q<sub>r</sub> = 47.89 PSF

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

T<sub>e</sub> = 958 LB/FT.

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

T<sub>r</sub> =  $\frac{QW}{2}$

T<sub>r</sub> = 325 LB/FT.

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

T<sub>s</sub> = 958/6.316

T<sub>s</sub> = 152 LB/SLAT

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

M<sub>h</sub> = 958(3.063) + 325(2.125)

M<sub>h</sub> = 3625 IN•LB

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

M<sub>h</sub> = 958(3.063) + 325(0.625)

M<sub>h</sub> = 3137 IN•LB

RIVETS

DESCRIPTION: SEMI-TUBULAR OVAL HEAD.

MATERIAL: LOW CARBON STEEL, ZINC OR CADMIUM PLATED.

SIZE: 3/16 IN. DIA. X 3/8 IN. LONG

A<sub>r</sub> = CROSS SECTIONAL AREA/RIVET

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

A<sub>r</sub> = 0.027 IN<sup>2</sup>

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

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

S<sub>s</sub> = 152 / (2 • 0.027)

S<sub>s</sub> = 2815 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> = (7 IN)(958 LB/FT)(1 FT/12 IN) / (0.375 IN<sup>2</sup>)

S<sub>w</sub> = 1486 PSI

WALL ATTACHMENT BOLTS (MAXIMUM LOAD)

STEEL JAMB-POSITIVE WINDLOAD

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

R<sub>b</sub> = [11/12(3137)]/0.75

R<sub>b</sub> = 3784 LB.

CONCRETE JAMB-POSITIVE WINDLOAD (Z-MOUNT)

R<sub>b</sub> = [14/12(3625)]/3.25

R<sub>b</sub> = 1301 LB.

WALL ATTACHMENT WELD

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

A<sub>w</sub> = 1 1/2 x 2 x .188 x .707

A<sub>w</sub> = 0.399 IN<sup>2</sup>

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

S<sub>w</sub> = 11/12 (958) / .399

S<sub>w</sub> = 2201 PSI

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

T<sub>w</sub> = T<sub>r</sub> / A<sub>w</sub> + M<sub>h</sub> / [WELD LENGTH x WELD WIDTH AT ANGLE x WELD SIZE x .707]

T<sub>w</sub> = 11/12 [(325 / .399) + 3625 / [1.5 x 2.25 x .188 x .707]]

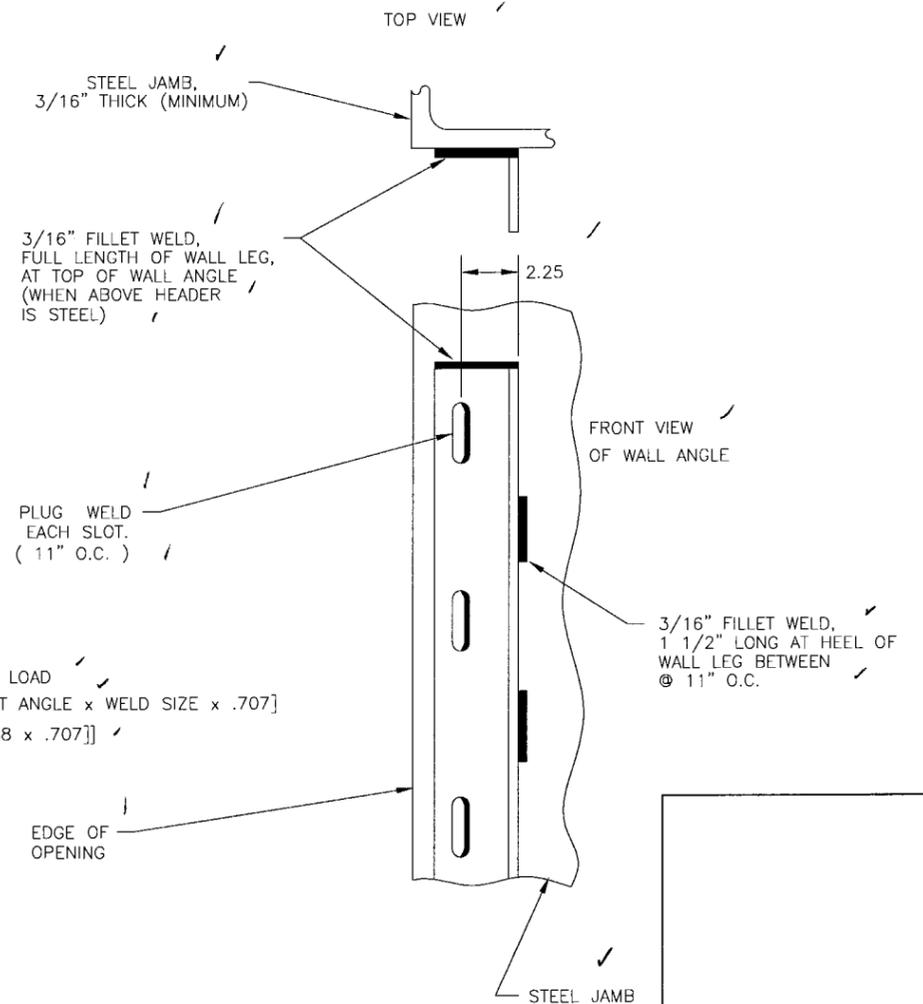
T<sub>w</sub> = 8154 PSI

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> = 8445 PSI

DETAILS FOR WELDING "E" GUIDES TO STEEL JAMBS



*L. Krupke*  
6-30-06

OVERHEAD DOOR CORPORATION  
2501 SOUTH STATE HWY 121 BUSINESS  
LEWISVILLE, TX 75067

LeROY G. KRUPKE, P.E. #36580

05-1003.23  
09/16/09

OVERHEAD DOOR CORPORATION  
SERIES 610,  
ROLLING SERVICE DOOR  
10' DADE COUNTY

DRAWING NUMBER  
D-308123

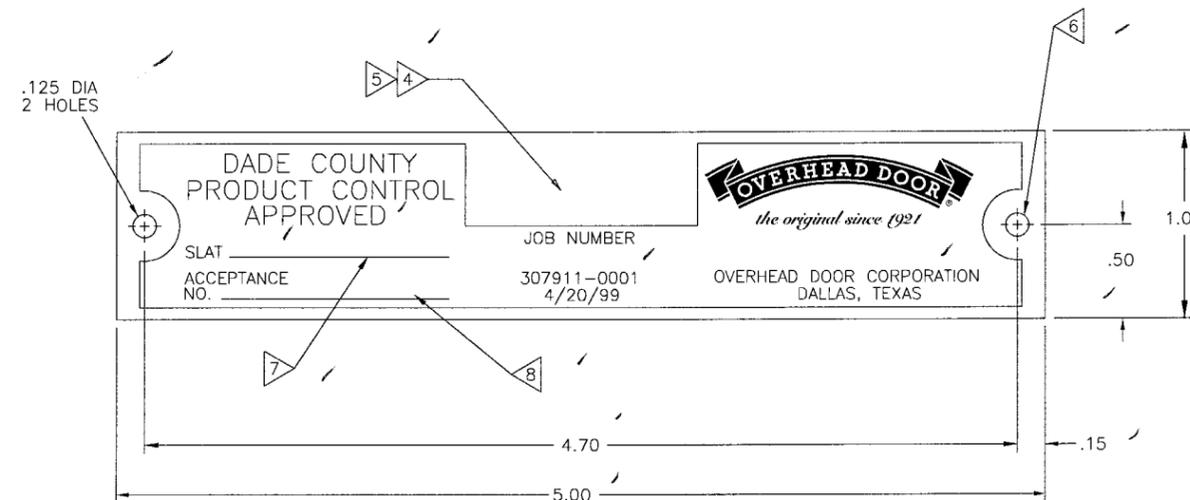
SCALE: NONE SHEET 2 OF 3

UNLESS OTHERWISE SPECIFIED			OVERHEAD DOOR		NAME		DATE		DRAWING TITLE	
DIMENSIONS	DECIMAL DIMENSIONS	FRACTIONS	THE ORIGINAL SINCE 1918	DALLAS, TEXAS	DRAWN BY:	DATE	CHECKED BY:	DATE	SERIES 610, ROLLING SERVICE DOOR 10' DADE COUNTY	
3/16" ± .03	UNDER 251+ .004+ .003	251 TO 500+ .008+ .003			K WILSON	8/8/03	JD FAW	9/5/03	DRAWING NUMBER D-308123	
XXX ± .005	OVER 500+ .008+ .003	1/16"			APPROVED BY:	9/5/03	L. KRUPKE	9/5/03	SCALE: NONE SHEET 2 OF 3	

NOTES

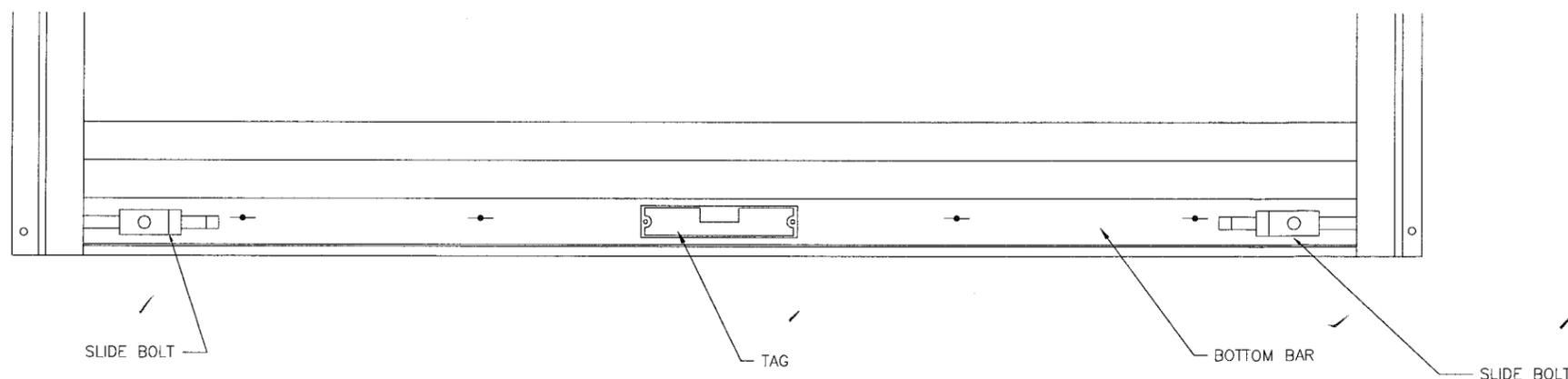
1. MATERIAL: ALUMINUM 3003 H14 (0.03 THICK) WITH TRANSPARENT KELSTRIP COVERING.
2. COLOR: HANSCHY RED CS 2311.
3. SOURCE: OHD ADVERTISING AND MERCHANDISING 1900 CROWN DRIVE FARMERS BRANCH, TX 75234
4. STAMP FACTORY ORDER NUMBER HERE.
5. A LETTER MUST BE STAMPED ON ROLLING FIRE DOORS TO IDENTIFY MANUFACTURING 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	8/27/04	CCB
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

*L. G. Krupke*  
6-30-06

OVERHEAD DOOR CORPORATION  
2501 SOUTH STATE HWY 121 BUSINESS  
LEWISVILLE, TX 75067

LeROY G. KRUPKE, P.E. #36580

PRODUCT DESIGNED  
BY: LeRoy G. Krupke

OS-100323  
09/16/09

UNLESS OTHERWISE SPECIFIED			OVERHEAD DOOR		NAME		DATE		DRAWING TITLE:	
DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMAL DIMENSIONS			DALLAS, TEXAS		DRAWN BY:		DATE		SERIES 610, ROLLING SERVICE DOOR 10' DADE COUNTY	
.XX ± .03	UNDER .251 ± .004 - .003	FRACTIONS * 1/16"	the original since 1921		M WOMACK		10/10/03		DRAWING NUMBER D- 308123	
.XXX ± .005	.251 TO .500 ± .004 - .003		MATERIAL:		CHECKED BY:		10/10/03		SCALE: NOTED	
	OVER .500 ± .004 - .003		N/A		JD FAW				SHEET 3 OF 3	
			APPLIED FINISH:		APPROVED BY:		10/10/03			
			N/A		L KRUPKE					