



**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**

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

**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 Steel Rolling Door 10'-0" Wide

APPROVAL DOCUMENT: Drawing No. **D-308123**, titled "Series 610 Rolling Service Door 10' Dade County", Sheets 1 through 3 of 3, dated 09/05/03 and 10/10/03, with Revision D 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 # 09-0324.10** 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.**



[Signature]
11/02/10

**NOA No. 10-0831.11
Expiration Date: September 16, 2014
Approval Date: November 24, 2010
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **D-308123**, titled "Series 610 Rolling Service Door 10' Dade County", Sheets 1 through 3 of 3, dated 09/05/03 and 10/10/03, with Revision D dated 08/25/10, prepared by Overhead Door Corporation, signed and sealed by LeRoy G. Krupke, P.E.

B. TESTS "Submitted under NOA # 05-1003.23"

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., Test Report No. **ATI-01-43463.01**, dated 09/05/03, 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 # 05-1003.23"

1. Calculations for Dade County Product Approval of 24, 22, 20 & 18 Gauge Rolling Garage Door, prepared by Overhead Door Corporation on sheet 2 of 3, signed and sealed by LeRoy 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 # 09-0324.10"

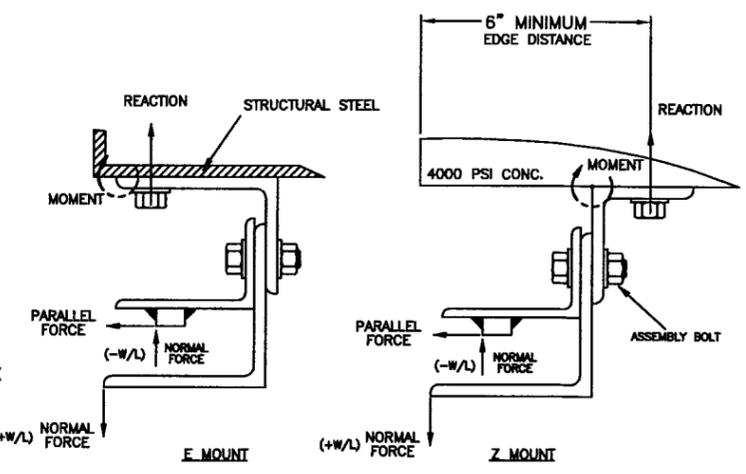
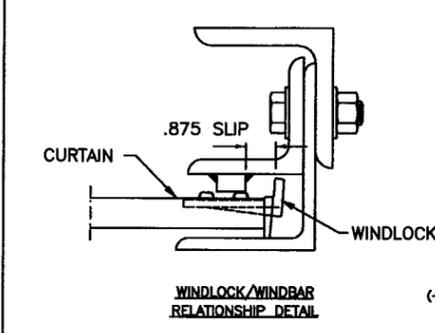
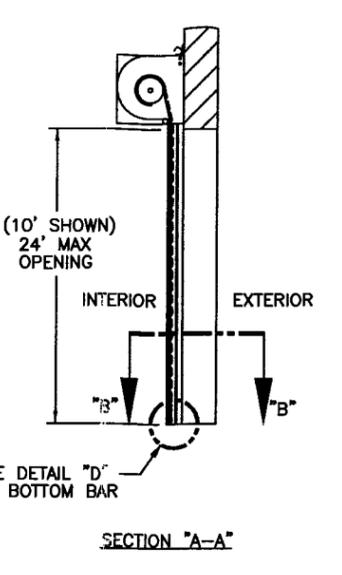
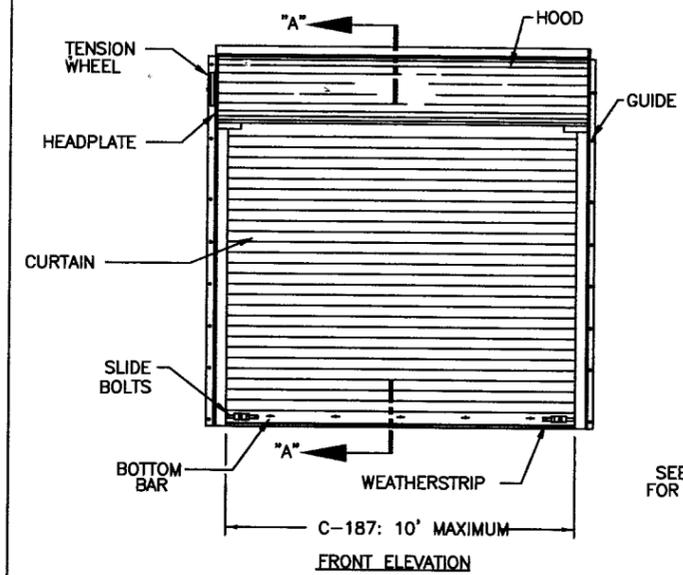


Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 10-0831.11
Expiration Date: September 16, 2014
Approval Date: November 24, 2010

NOTES

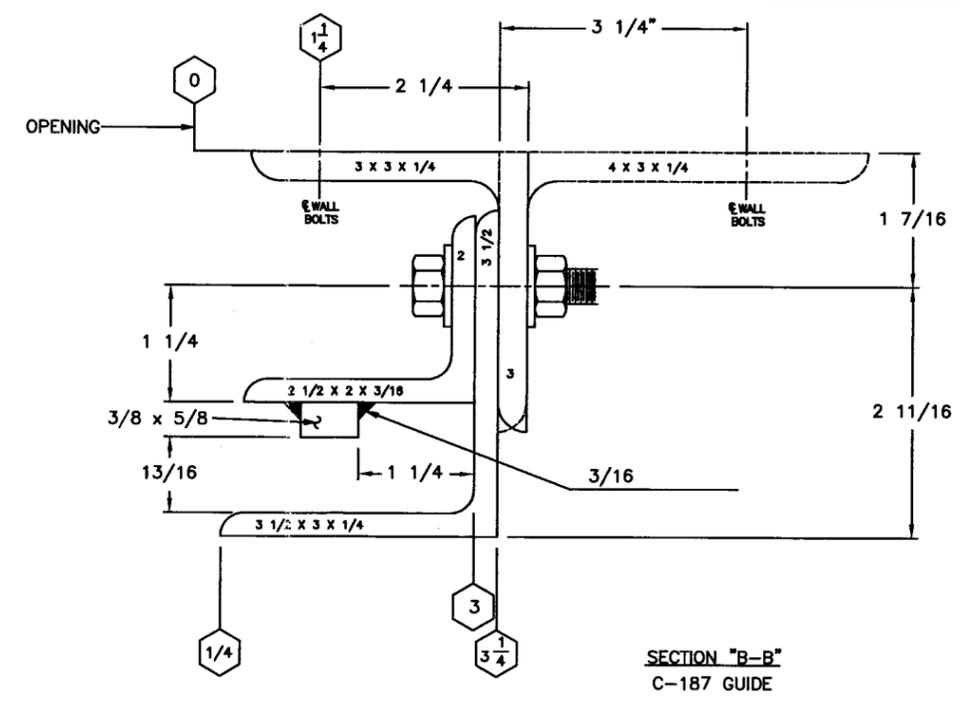
- (-W/L) = NEGATIVE WINDLOAD
(+W/L) = POSITIVE WINDLOAD
- WALL ANGLES MAY BE WELDED TO STEEL JAMB.
SEE SHEET 2 FOR DOOR WELD DETAIL
- RATED DESIGN LOAD ±65 PSF.
- CURTAIN MATERIAL: ASTM A-653, CS TYPE B.
GUIDE MATERIAL: ASTM A-36
- ALTERNATE CURTAIN MATERIAL: AISI-304 SS.
MINIMUM YIELD 40,000 PSI.
- CURTAIN MATERIAL SHALL BE GALVANIZED ACCORDING
TO ASTM A-525 TO G40 MINIMUM.
- THE DOOR MUST BE INSTALLED WITH THE TENSION WHEEL
FACING THE INSIDE OF THE BUILDING.
- SLIDE BOLTS MUST BE ENGAGED AND CHAIN MUST BE
HOOKED WHEN HURRICANE WINDS ARE ANNOUNCED
- 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%
- WINDLOCKS ATTACHED TO EACH SLAT (CONTINUOUS)
- RIVET SPECIFICATIONS:
1/4" DIAMETER RIVET, MINIMUM 1006 LOW-CARBON STEEL.

SHEET REVISION RECORD			REVISIONS			
3	2	1	LETTER	DESCRIPTION	DATE	APPROVAL
D	F	G	E	REV PER EN 20807	6/18/08	LK
			F	REV PER EN 20814	8/30/08	LK
			G	REV PER ER 500692	8/25/10	SFT



C-187 - DOOR SIZE REF. SUMMARY

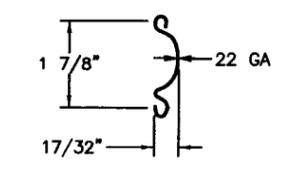
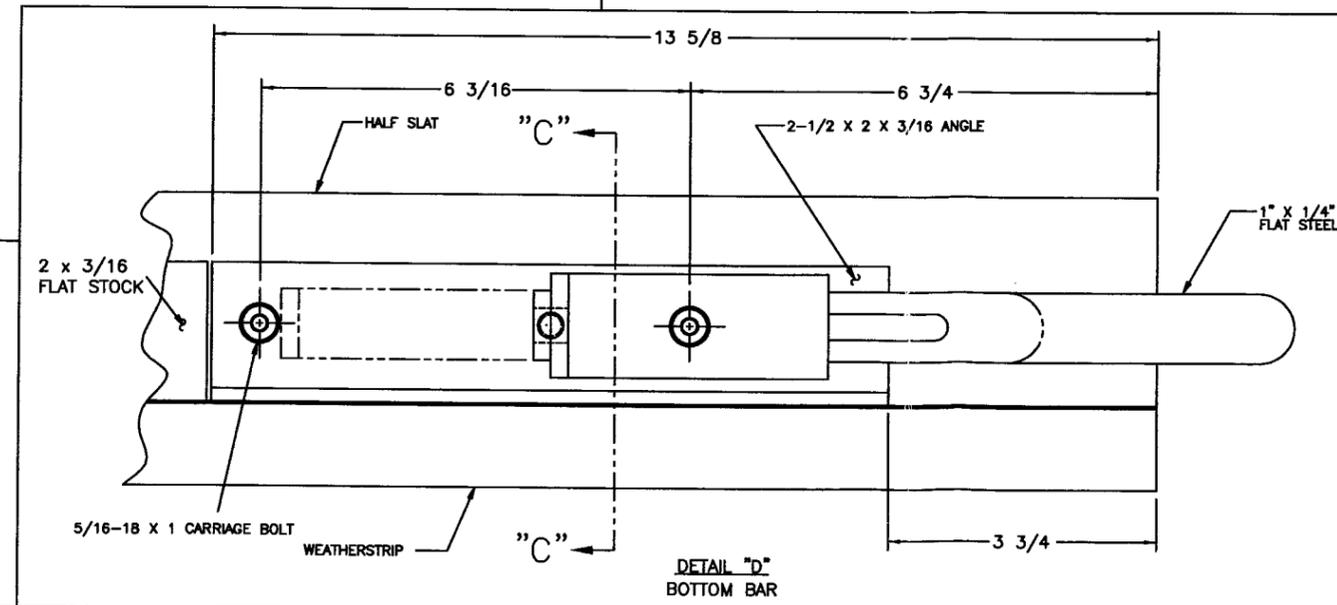
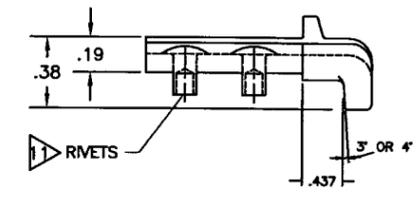
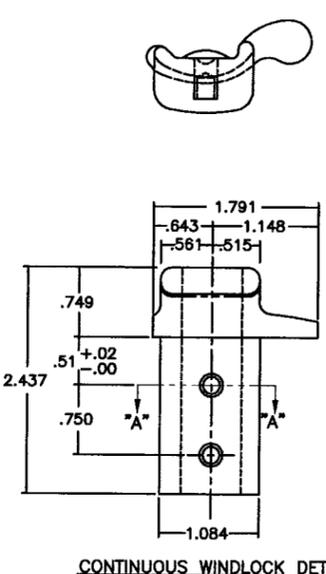
LBS/FT DOOR HEIGHT	(E-MOUNT) LOADS			(Z-MOUNT) LOADS		
	22 GA **	20 GA	18 GA	22 GA **	20 GA	18 GA
REACTION	4182	3933	3333	1115	1057	919
NORMAL	325	325	325	325	325	325
PARALLEL	958	897	750	958	897	750



	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 POWER BOLT OR 1/2", 4" EMB POWERS WEDGE BOLT 11" O.C.

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

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 10-0836.11
Expiration Date 07/16/2014
By *[Signature]*
Miami Dade Product Control Division



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

SERIES 611 IS EQUIVALENT CONSTRUCTION

UNLESS OTHERWISE SPECIFIED		MATERIAL		APPLIED FINISH		UNIT OF MEASURE	
DIMENSIONS ARE IN INCHES/TOLERANCES ON DIMENSIONS	HOLE DIMENSIONS	FINISHES	UNIT OF MEASURE	N/A			

NAME	DATE	DRAWING TITLE
DRAWN BY: K WILSON	8/8/03	SERIES 610, ROLLING SERVICE DOOR 10' DADE COUNTY
CHECKED BY: L KRUPKE	9/5/03	DRAWING NUMBER: D-308123
APPROVED BY: JD FAW	9/5/03	SCALE: NONE SHEET 1 OF 3

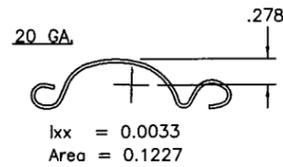
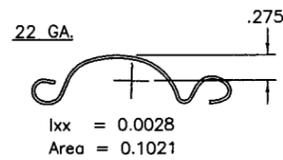
OVERHEAD DOOR CORPORATION
2501 SOUTH STATE HWY 121 BUSINESS
LEWISVILLE, TX 75067
LeROY G. KRUPKE, P.E. #36580

[Signature]
8/25/10

NOTES

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	SFT

CALCULATIONS:



$Q = 65 \text{ PSF}$

$Q_r = \text{WINDLOAD HELD IN TENSION}$

$Q_r = Q - Q_b$

$Q_r = 65 - 17.11$

$Q_r = 47.89 \text{ PSF}$

$T_e = \frac{3Q_r W^2}{2D}$

$T_e = 958 \text{ LB/FT.}$

$T_r = \text{THRUST LOAD ON GUIDES PER FOOT OF HEIGHT.}$

$T_r = \frac{QW}{2}$

$T_r = 325 \text{ LB/FT.}$

$T_s = \text{TENSION/SLAT}$

$T_s = 958/6.316$

$T_s = 152 \text{ LB/SLAT}$

$M_k = \text{MAXIMUM RESULTANT MOMENT APPLIED TO JAMB (Z-MOUNT)}$

$M_k = 958(3.063) + 325(2.125)$

$M_k = 3625 \text{ IN}\cdot\text{LB}$

$M_k = \text{MAXIMUM RESULTANT MOMENT APPLIED TO JAMB (E-MOUNT)}$

$M_k = 958(3.063) + 325(0.625)$

$M_k = 3137 \text{ IN}\cdot\text{LB}$

RIVETS

DESCRIPTION: SEMI-TUBULAR OVAL HEAD.

MATERIAL: LOW CARBON STEEL, ZINC OR CADMIUM PLATED.

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

$A_r = \text{CROSS SECTIONAL AREA/RIVET}$

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

$A_r = 0.027 \text{ IN}^2$

$S_s = \text{SHEAR STRESS ACROSS TWO END RIVETS}$

$S_s = T_s / (2 \cdot A_r)$

$S_s = 152 / (2 \cdot 0.027)$

$S_s = 2815 \text{ PSI}$

WINDBAR WELDS

$A_w = \text{AREA OF WELD}$

$A_w = \text{LENGTH} \cdot \text{FILLET WIDTH}$

$A_w = (2)(0.1875)$

$A_w = 0.375 \text{ IN}^2$

$S_w = \text{SHEAR STRESS ACROSS WELD}$

$S_w = (7 \text{ IN})(958 \text{ LB/FT})(1 \text{ FT}/12 \text{ IN}) / (0.375 \text{ IN}^2)$

$S_w = 1486 \text{ PSI}$

WALL ATTACHMENT BOLTS (MAXIMUM LOAD)

STEEL JAMB-POSITIVE WINDLOAD

$R_b = \text{WALL ATTACHMENT BOLT REACTION}$

$R_b = [11/12(3137)]/0.75$

$R_b = 3784 \text{ LB.}$

CONCRETE JAMB-POSITIVE WINDLOAD (Z-MOUNT)

$R_b = [14/12(3625)]/3.25$

$R_b = 1301 \text{ LB.}$

WALL ATTACHMENT WELD

$A_w = \text{AREA OF WELD}$

$A_w = 1 \frac{1}{2} \times 2 \times .188 \times .707$

$A_w = 0.399 \text{ IN}^2$

$S_w = \text{SHEAR STRESS ACROSS WELD}$

$S_w = 11/12 (958) / .399$

$S_w = 2201 \text{ PSI}$

$T_w = \text{TENSION STRESS FROM BENDING AND NORMAL LOAD}$

$T_w = T_w/A_w + M_k / [\text{WELD LENGTH} \times \text{WELD WIDTH AT ANGLE} \times \text{WELD SIZE} \times .707]$

$T_w = 11/12 [(325/.399) + 3625/[1.5 \times 2.25 \times .188 \times .707]]$

$T_w = 8154 \text{ PSI}$

$R_w = \text{RESULTANT WELD STRESS}$

$R_w = [S_w^2 + T_w^2]^{1/2}$

$R_w = 8445 \text{ PSI}$

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

	I(IN ⁴)	A(IN ²)	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

$W = \text{DOOR WIDTH}$

$W = 10 \text{ FT.}$

$D = \text{CURTAIN DEFLECTION}$

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

$D = [0.75 (12) (10) (0.625)]^{1/2}$

$D = 7.50 \text{ IN.}$

$S_r = \text{YIELD STRESS OF SLAT MATERIAL}$

$S_r = 40,000 \text{ PSI}$

$E = \text{MODULUS OF ELASTICITY}$

$E = 29,000,000 \text{ PSI}$

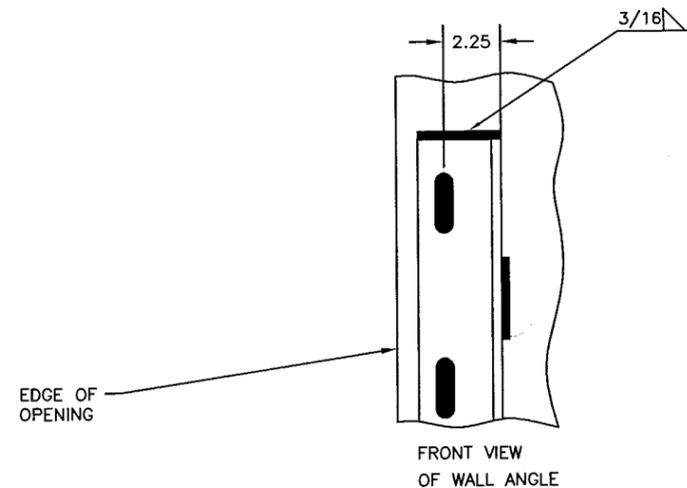
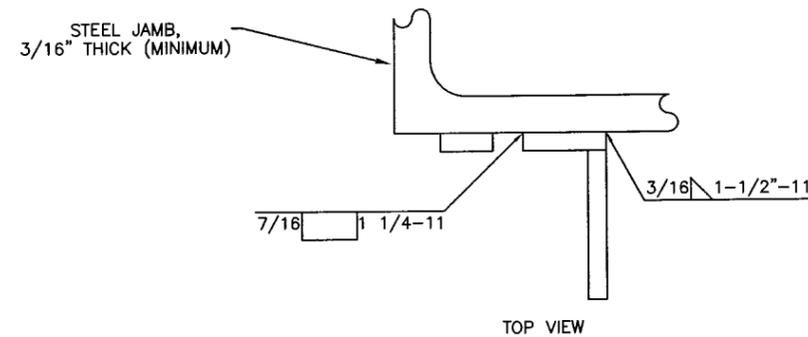
$Q_b = \text{WINDLOAD HELD IN BENDING}$

$Q_b = \frac{2EID}{45W^4} \text{ OR } \frac{2S_r I}{3W^2 C} \text{ (LESSER VALUE)}$

$Q_b = \frac{2(29,000,000)(0.0177)(7.50)}{45(10)^4}$

$Q_b = 17.11 \text{ PSF}$

$Q_b = \frac{2(40,000)(0.0177)}{3(10^2)(0.275)}$



DETAILS FOR WELDING "E" GUIDES TO STEEL JAMBS

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 10-0831-11 Expiration Date 09/16/2014
By *[Signature]*
Miami Dade Product Control Division

[Signature]
8/25/10

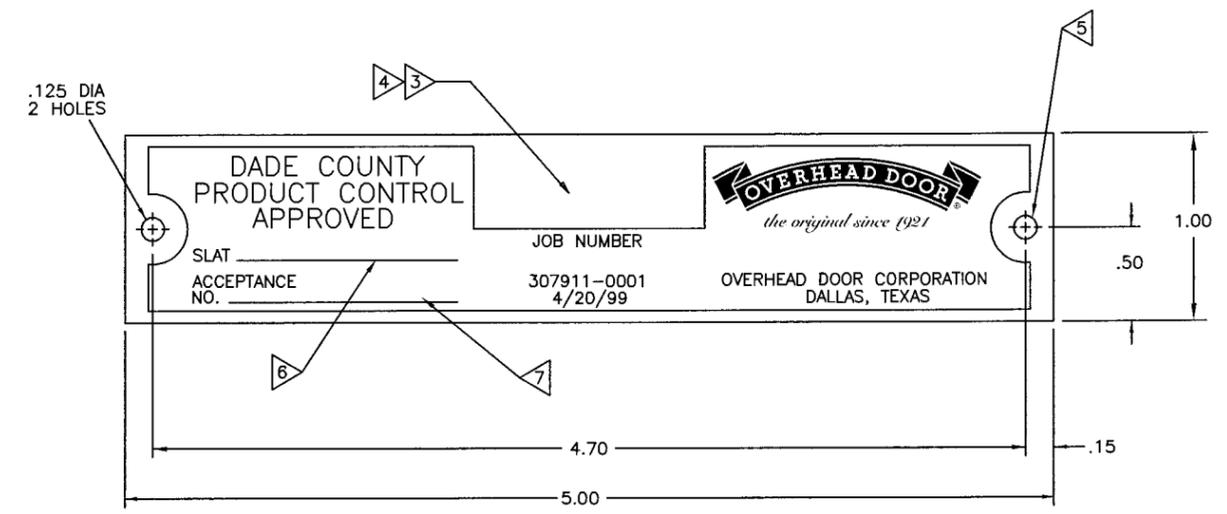
OVERHEAD DOOR CORPORATION
2501 SOUTH STATE HWY 121 BUSINESS
LEWISVILLE, TX 75067
LeROY G. KRUPKE, P.E. #36580

UNLESS OTHERWISE SPECIFIED		OVERHEAD DOOR		DALLAS, TEXAS		DRAWING TITLE:	
DIMENSIONS ARE IN INCHES: TOLERANCES ON DECIMAL DIMENSIONS	FRACCTIONS ± 1/16"	FRACCTIONS ± 1/16"	FRACCTIONS ± 1/16"	NAME	DATE	SERIES 610, ROLLING SERVICE DOOR 10' DADE COUNTY	
0.004 ± 0.003	0.001 ± 0.001	0.001 ± 0.001	0.001 ± 0.001	DRAWN BY: K WILSON	8/8/03	DRAWING NUMBER: D-308123	
0.004 ± 0.003	0.001 ± 0.001	0.001 ± 0.001	0.001 ± 0.001	CHECKED BY: JD FAW	9/5/03	SCALE: NONE SHEET 2 OF 3	
0.004 ± 0.003	0.001 ± 0.001	0.001 ± 0.001	0.001 ± 0.001	APPLIED FINISH: N/A	UNIT OF MEASURE: N/A	APPROVED BY: L KRUPKE	9/5/03

NOTES

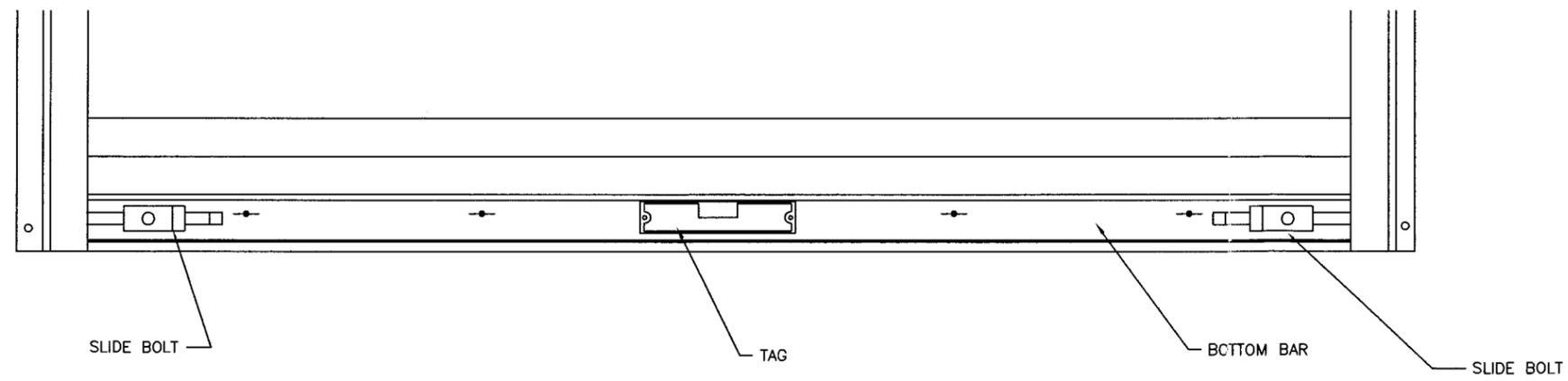
1. MATERIAL: ALUMINUM 3003 H14 (0.03 THICK) WITH TRANSPARENT KELSTRIP COVERING.
2. COLOR: HANSCHY RED CS 2311.
3. STAMP FACTORY ORDER NUMBER HERE.
4. A LETTER MUST BE STAMPED ON ROLLING FIRE DOORS TO IDENTIFY MANUFACTURING PLANT (I.E., USE "P" FOR PENNSYLVANIA).
5. FASTENER FOR TAG IS P/N 080276-1004(STEEL 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	8/25/10	SFT



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

SCALE: 2/1



DETAIL "E" 5
SCALE: 4/1

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 10-0831.11
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			OVERHEAD DOOR		NAME		DATE		DRAWING TITLE:	
DECIMAL DIMENSIONS	HOLE DIMETERS	ANGLES ± 0° 30'	DALLAS, TEXAS		DRAWN BY:		10/10/03		SERIES 610, ROLLING SERVICE DOOR 10' DADE COUNTY	
.001 ± .001	UNDER .251 ± .001 - .003	FRACTIONS ± 1/16"	the original since 1921		M WOMACK		10/10/03		DRAWING NUMBER	
.002 ± .002	.251 TO .500 ± .001 - .003				CHECKED BY:		10/10/03		D - 308123	
	OVER .500 ± .001 - .003				APPLIED FINISH:		N/A		SCALE: NOTED	
					UNIT OF MEASURE:		N/A		SHEET 3 OF 3	
					APPROVED BY:		L KRUPKE			