



**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: 16' Wide 625 Series Rolling Steel Door

APPROVAL DOCUMENT: Drawing No. D-308124, titled "Series 625 Rolling Service Door 16' 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 NOA revises **NOA # 05-1003.21** 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 09-0324.08
Expiration Date: October 14, 2014
Approval Date: June 17, 2009
Page 1**

Overhead Door Corporation.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. D-308124, prepared by Overhead Door Corporation, titled "Series 625 Rolling Service Door 16' 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 Test 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 01-43464.02, dated 09/05/03 signed and sealed by L. G. Krupke, PE.
2. Test report # 3061869-001r1 on Surface Burning characteristics per ASTM E84 on slats insulated with 2lb polyurethane foam, prepared by Intertek, dated 07/13/04 and signed by J. Tanner.
3. Test report # 17042-120730 of Ignition Properties per ASTM D1929 on Polyurethane Foam insulation, prepared by Omega Point Laboratories, dated 09/12/04, signed and sealed by W. E. Fith PE.
4. Test report # ETL 9100550287 of Salt Spray Fog Test 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 24, 22, 20 & 18 Gauge Rolling Garage Door, prepared by Overhead Door Corporation on sheet 2 of 3, signed and sealed by L. G. Krupke, PE 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 on 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 04/18/09.

F. OTHER

NOA # 05-1003.21



Mohammed Iqbal Shaikh, P.E.
Senior Building Code Compliance Specialist
NOA 09-0324.08

Expiration Date: October 14, 2014

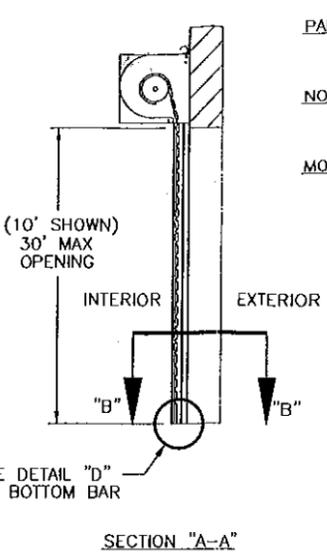
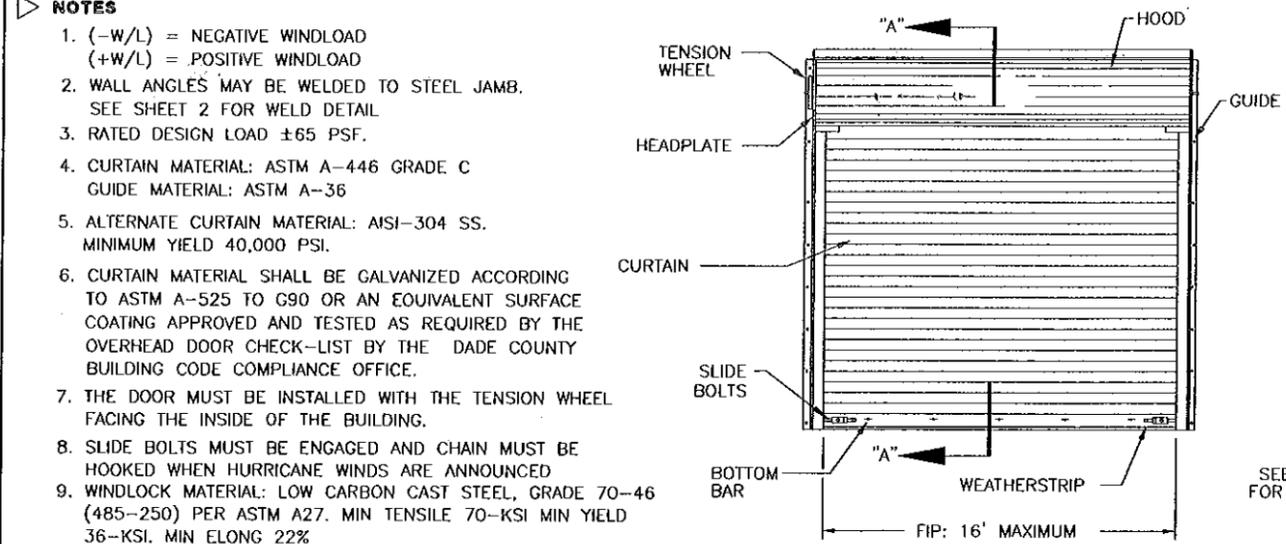
Approval Date: June 17, 2009

NOTES

1. (-W/L) = NEGATIVE WINDLOAD
(+W/L) = POSITIVE WINDLOAD
2. WALL ANGLES MAY BE WELDED TO STEEL JAMB.
SEE SHEET 2 FOR 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:

RIVET SIZE	ULTIMATE SHEAR STRENGTH MIN LBS		ULTIMATE TENSILE STRENGTH MIN LBS	
	GRADE 30	GRADE 51	GRADE 30	GRADE 51
1/4	1000	1700	1240	2100

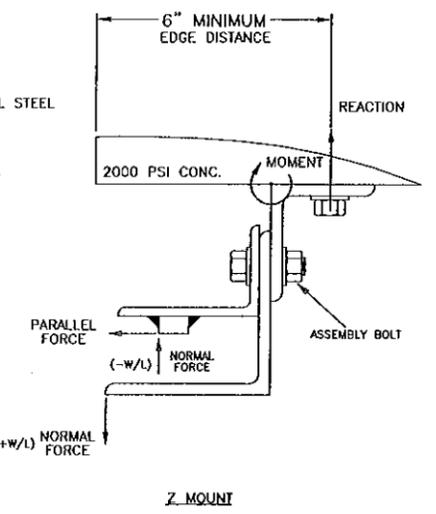
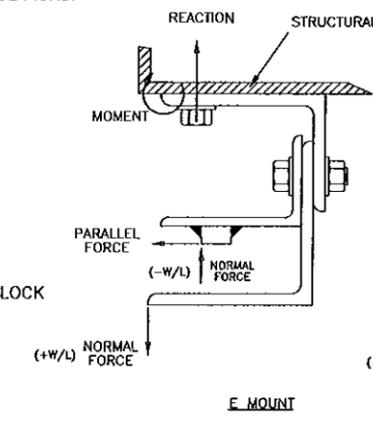
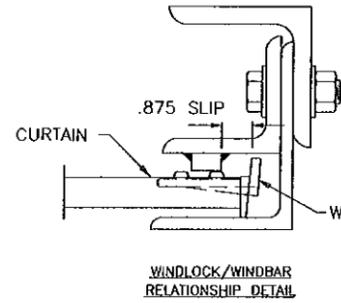
GRADE 30 = CARBON STEEL RIVET
CARBON STEEL MANDREL
GRADE 51 = STAINLESS STEEL RIVET
STAINLESS STEEL MANDREL



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

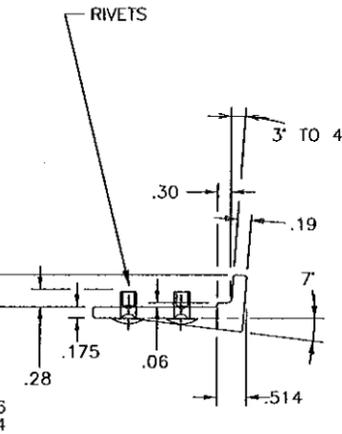
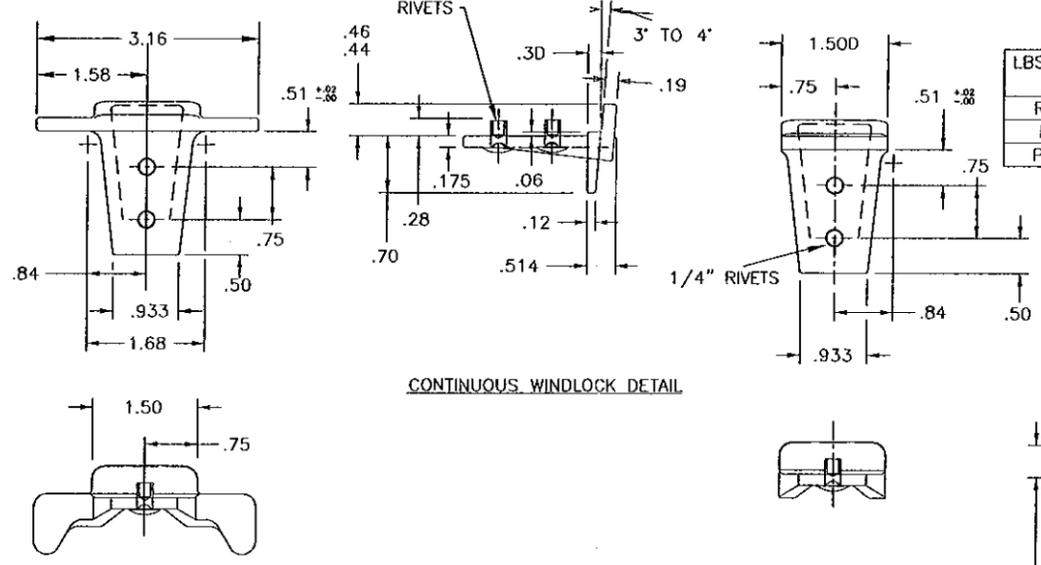
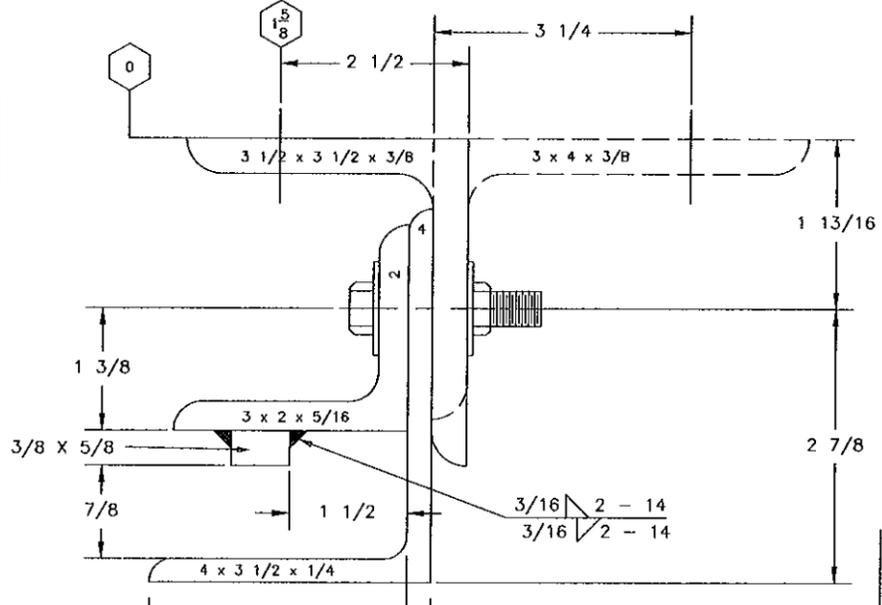
NORMAL FORCE: THE FORCE NORMAL TO THE DOOR OPENING IN,
POUNDS PER FOOT OF HEIGHT. SEE T_r IN CALCULATIONS.

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_R IN CALCULATIONS.



FIP - DOOR SIZE REF. SUMMARY

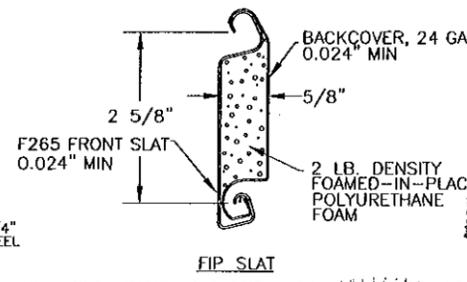
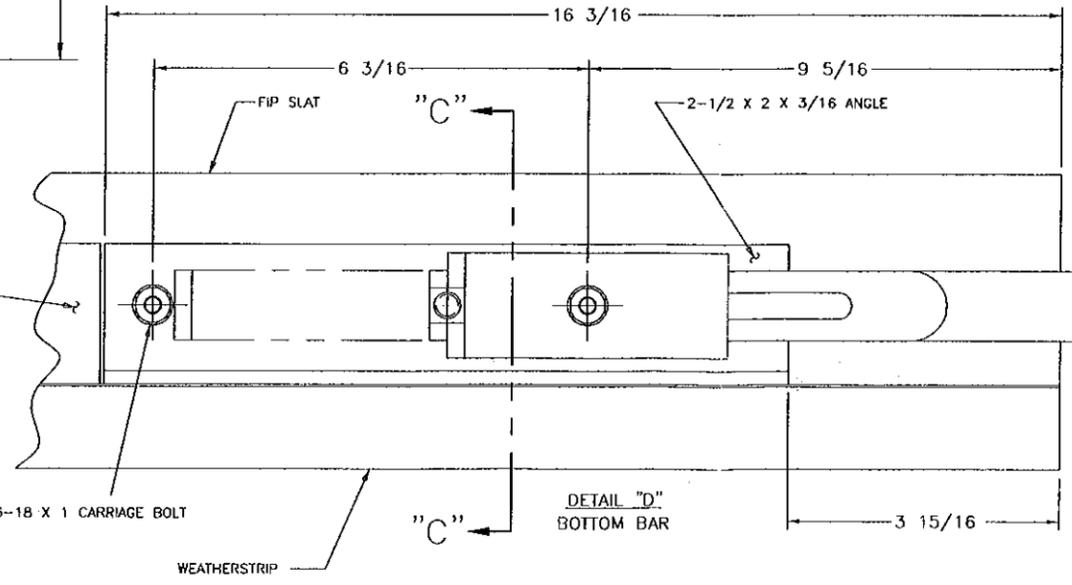
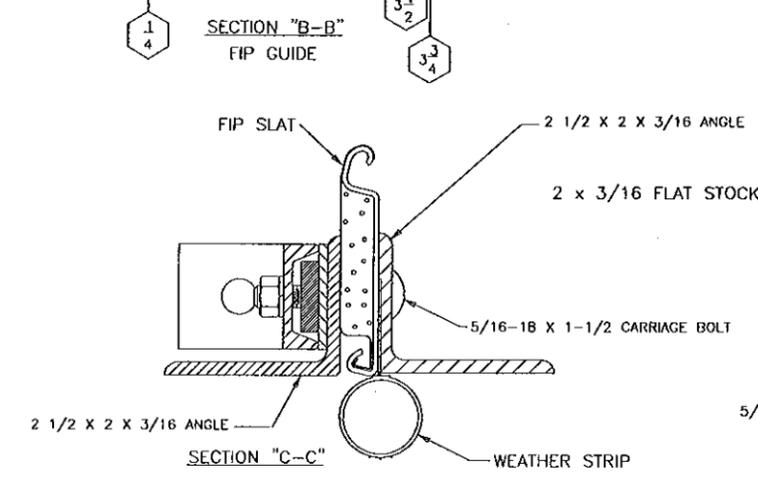
LBS/FT DOOR HEIGHT	(E-MOUNT) LOADS				(Z-MOUNT) LOADS *			
	24 GA **	22 GA	20 GA	18 GA	24 GA **	22 GA	20 GA	18 GA
REACTION	6172	6005	5766	5353	2119	2067	1994	1867
NORMAL	520	520	520	520	520	520	520	520
PARALLEL	1623	1576	1509	1393	1623	1576	1509	1393



* LOADS - PER FOOT OF HEIGHT

	ASSEMBLY BOLT	WALL BOLT STEEL JAMB	WALL BOLT * CONCRETE JAMB
F-265	1/2" GRADE 5, 12" O.C.	1/2" GRADE 5, 12" O.C.	1/2", 4" EMB POWERS WEDGE BOLT OR 1/2", 5" EMB POWERS BOLT 6" O.C.

* 2000 PSI MINIMUM AND 6" EDGE DISTANCE FOR ANCHORS



FRONT SLAT GAUGE OPTIONS: 24, 22, 20, 18
** TESTED IN ACCORDANCE WITH DADE COUNTY
PROTOCOLS PA 201-94, PA 202-94, AND PA 203-94

SERIES 626 IS EQUIVALENT CONSTRUCTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES/TOLERANCES ON DECIMAL DIMENSIONS	OVERHEAD DOOR CORPORATION	DALLAS, TEXAS	DATE 8/8/03	DRAWING TITLE: SERIES 625, ROLLING SERVICE DOOR 16' DADE COUNTY
JOB NO. 03 302-0-006	MATERIAL: FRACIONS 1/16"	CHECKED BY: JD FAW	DATE 9/5/03	DRAWING NUMBER D-308124
APPLIED FINISH: UNIT OF MEASURE: N/A	APPROVED BY: L KRUPKE	DATE 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

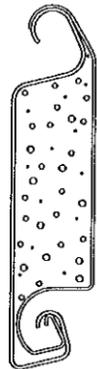
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 09-0324.08
Expiration Date 10/14/14
By: *[Signature]*
Miami Dade Product Control
Division

RECEIVED
 2009 MAR 23 PM 12:18
 BUILDING CODE COMPLIANCE
 ADMINISTRATIVE

NOTES

CALCULATIONS:

24, 22, 20 AND 18 GA



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

	I(IN ⁴)	A(IN ²)	C(IN)
24 GA.	0.0796	0.5613	0.392
22 GA.	0.0858	0.7015	0.403
20 GA.	0.0948	0.8422	0.418
18 GA.	0.1101	1.0965	0.439

CALCULATIONS SHOWN FOR 24 GA. SLAT.

WINDLOCK SLIP DISTANCE = 0.875"/SIDE

W = DOOR WIDTH

$W = 16 \text{ FT.}$

D = CURTAIN DEFLECTION

$D = [(.75 \cdot .12 \cdot W)(\text{WINDLOCK SLIP})]^{1/2}$

$D = [(.75 \cdot .12 \cdot 16)(0.875)]^{1/2}$

$D = 11.22 \text{ IN.}$

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

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

$Q_b = \frac{2(29,000,000)(0.0796)(11.22)}{45(16)^4}$

$Q_b = 17.56$

$Q_b = \frac{2(40,000)(0.0796)}{3(16^2)(0.392)}$

Q_b = 21.15

$Q = 65 \text{ PSF}$

Q_t = WINDLOAD, HELD IN TENSION

$Q_t = Q - Q_b$

$Q_t = 65 - 17.56$

$Q_t = 46.07 \text{ PSF}$

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

$T_e = 1623 \text{ LB/FT.}$

T_f = THRUST LOAD ON GUIDES PER FOOT OF HEIGHT.

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

$T_f = 520 \text{ LB/FT.}$

T_s = TENSION/SLAT

$T_s = 1623/4.494$

$T_s = 361 \text{ LB/SLAT}$

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

$M_r = 1623(3.562) + 520(2.12)$

$M_r = 6887 \text{ IN} \cdot \text{LB}$

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

$M_e = 1623(3.562) + 520(0.75)$

$M_e = 6172 \text{ IN} \cdot \text{LB}$

WINDLOCK FASTENERS

DESCRIPTION: SEMI-TUBULAR OVAL HEAD RIVET

MATERIAL: LOW CARBON STEEL, ZINC OR CADMIUM PLATED

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

A_r = CROSS SECTIONAL AREA/RIVET

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

$A_r = 0.047 \text{ IN}^2$

S_s = SHEAR STRESS ACROSS TWO END FASTENERS

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

$S_s = 361 / (2 \cdot 0.047)$

$S_s = 3840 \text{ PSI}$

WINDBAR WELDS

A_w = AREA OF WELD

A_w = LENGTH · FILLET WIDTH

$A_w = (2)(0.1875)$

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

S_w = SHEAR STRESS ACROSS WELD

$S_w = (7 \text{ IN})(1 \text{ FT}/12 \text{ IN})(1623 \text{ LB/FT}) / (0.375 \text{ IN}^2)$

$S_w = 2525 \text{ PSI}$

WALL ATTACHMENT BOLTS

STEEL JAMB-MAX REACTION

R_e = WALL ATTACHMENT BOLT REACTION

$R_e = (12/12)[6172]/1.00$

$R_e = 6172 \text{ LB.}$

CONCRETE JAMB-MAX REACTION

$R_c = (8/12)[6887]/3.25$

$R_c = 1412 \text{ LB.}$

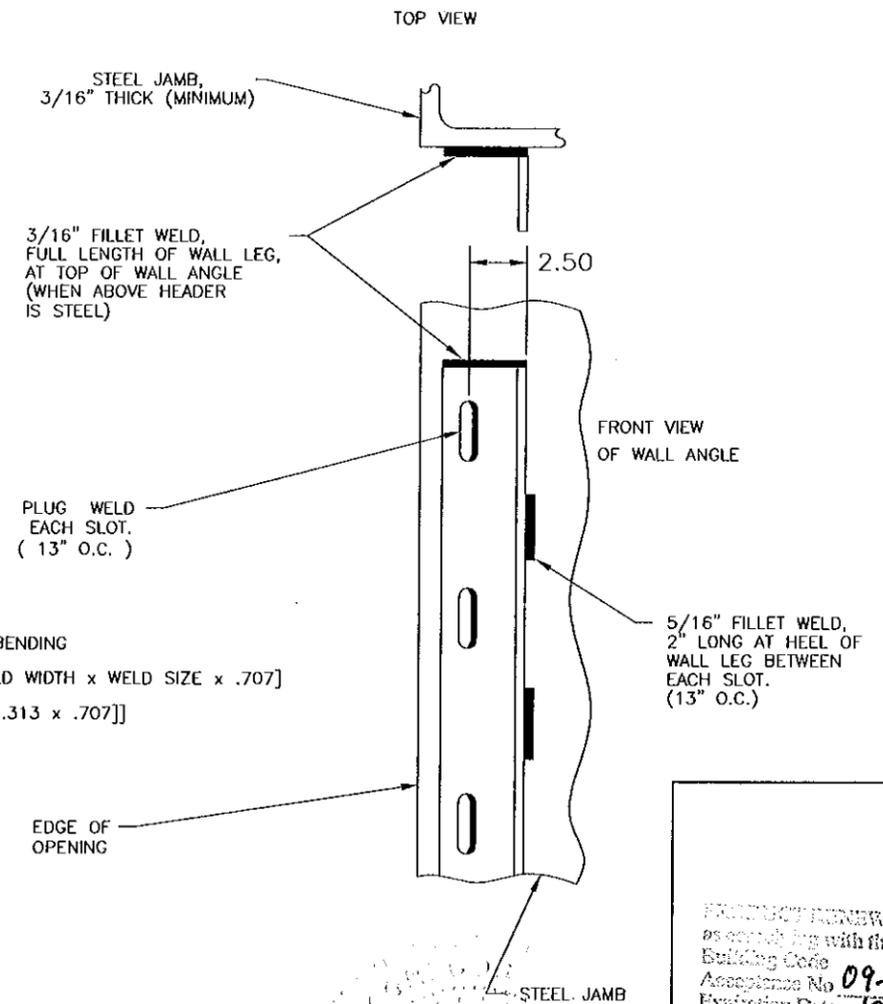
"S" = W + 7"

SLAT LG = W + 5 1/4"

PIPE LG = W + 3 1/4"

INSULATED BOTTOM BAR LG = W + 2 5/8" (NOT COPED)

DETAILS FOR WELDING "E" GUIDES TO STEEL JAMBS



WALL ATTACHMENT WELD

A_w = AREA OF WELD

$A_w = 2 \times 2 \times .313 \times .707$

$A_w = .885 \text{ IN}^2$

S_w = SHEAR STRESS ACROSS WELD

$S_w = 13/12 (1623)/.885$

$S_w = 1986 \text{ PSI}$

T_w = TENSION STRESS FROM ON WELD FROM BENDING

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

$T_w = 13/12 [520/.885 + 6887 / [2 \times 2.5 \times .313 \times .707]]$

$T_w = 7380 \text{ PSI}$

R_w = RESULTANT WELD STRESS

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

$R_w = [1986^2 + 7380^2]^{1/2}$

$R_w = 7642 \text{ PSI}$

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	LK

PRODUCT REWORKED as required with the Florida Building Code Acceptance No. 09-0324-08 Expiration Date 10/14/14 By: [Signature] Miami Dade Product Control Division

[Signature] 3-19-09

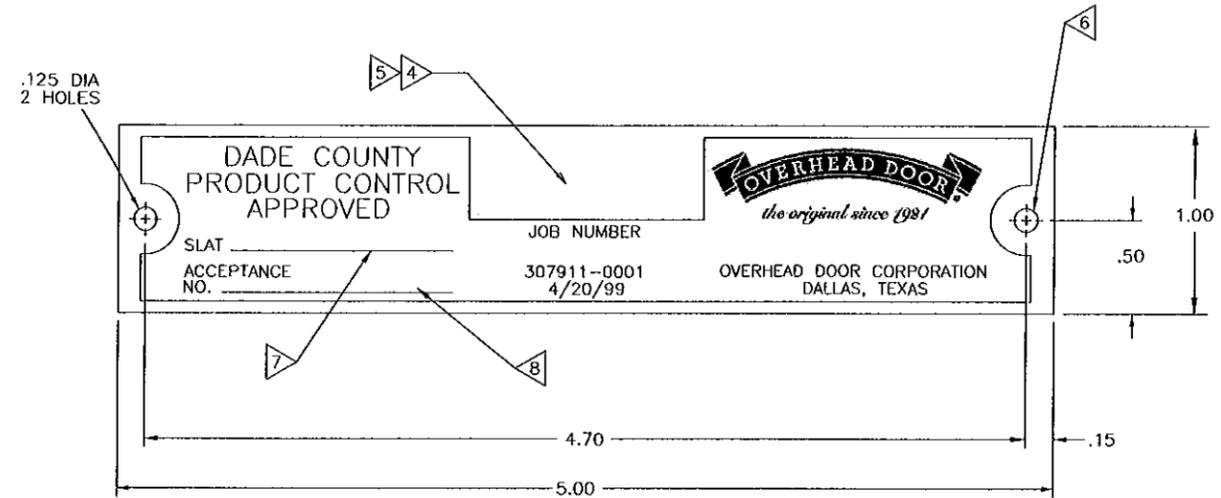
OVERHEAD DOOR CORPORATION 2501 SOUTH STATE HWY 121 BUSINESS LEWISVILLE, TX 75067 LeROY G. KRUPKE, P.E. #36580

UNLESS OTHERWISE SPECIFIED			OVERHEAD DOOR		NAME		DATE		DRAWING TITLE:	
DECIMAL DIMENSIONS	HOLE DIMENSIONS	ANGLES ± 0° 30'	DALLAS, TEXAS		DRAWN BY: K WILSON		8/8/03		SERIES 625, ROLLING SERVICE DOOR 16' DADE COUNTY	
100± ± .03	UNDER 3514-004-003	FRACTIONS ± 1/16"	MATERIAL: [Symbol]		CHECKED BY: JD FAW		9/5/03		DRAWING NUMBER D-308124	
300± ± .006	OVER 3504-004-003		APPLIED FINISH: [Symbol]		APPROVED BY: L KRUPKE		9/5/03		SCALE: NONE SHEET 2 OF 3	

NOTES

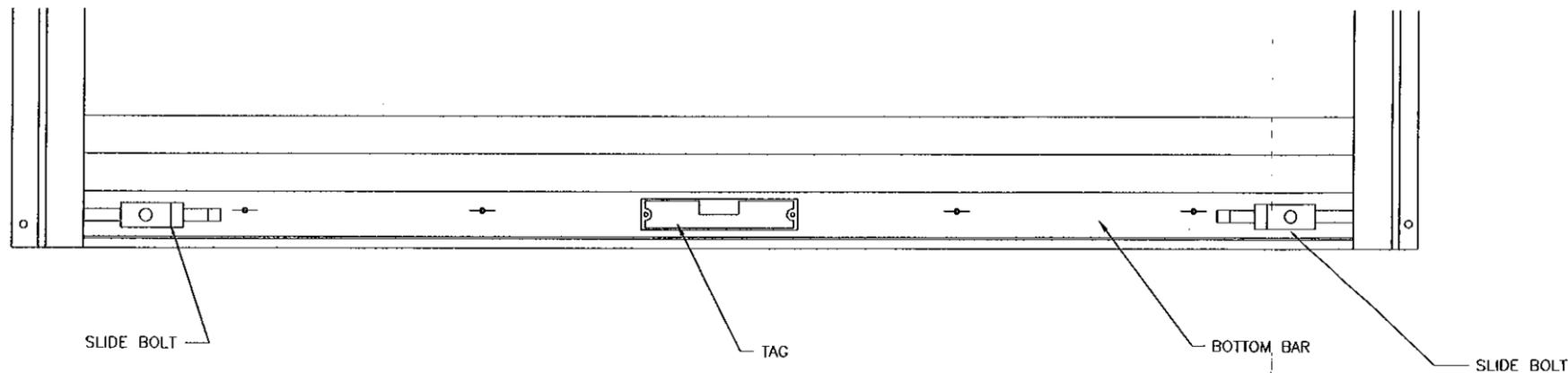
1. MATERIAL: ALUMINUM 3003 H14 (0.03 THICK) WITH TRANSPARENT KELSTRIP COVERING.
2. COLOR: HANSCHY RED CS 2311.
3. SOURCE: OHD ADVERTISING AND MERCHANDISING
1900 CROWN DRIVE
FARMERS BRANCH, TX 75234
4. STAMP FACTORY ORDER NUMBER HERE.
5. A LETTER MUST BE STAMPED ON ROLLING FIRE DOORS TO IDENTIFY MANUFACTURING 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	8/27/04	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" 6
SCALE: 4/1

LeRoy Krupke
3-19-09

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 09-0324.08
Expiration Date 10/14/14
By M. Ward
Miami Dade Product Control
Division

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

LeROY G. KRUPKE, P.E. #36580

UNLESS OTHERWISE SPECIFIED			OVERHEAD DOOR CORPORATION		DRAWING TITLE:	
DECIMAL DIMENSIONS	HOLE DIMETERS	ANGLES & Ø 30°	MATERIAL:	NAME	DATE	SERIES 625, ROLLING SERVICE DOOR 16' DADE COUNTY
.XX = ± .03	UNDER .251±.004-.003	FRACTIONS ± 1/16"	N/A	DADE COUNTY, TEXAS	10/10/03	D- 308124
.XX = ± .005	OVER .251±.004-.003		APPLIED FINISH: N/A	CHECKED BY: JD FAW	10/10/03	
			UNIT OF MEASURE: N/A	APPROVED BY: L KRUPKE	10/10/03	
			DRAWING NUMBER		SCALE: NOTED SHEET 3 OF 3	