



**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 Rolling Insulated Steel Door

APPROVAL DOCUMENT: Drawing No. D-308134, titled "Series 625, Rolling Service Door 22 FT. 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 # 03-1015.04 consists of this page 1, evidence page as well as approval document mentioned above.

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



[Handwritten signature]
09/28/06

**NOA No 05-1003.24
Expiration Date: October 14, 2009
Approval Date: September 28, 2006
Page 1**

Overhead Door Corporation.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. D-308134, prepared by Overhead Door Corporation, titled Series 625 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.

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 01-43464.01, dated 09/10/03, 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 on 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 # 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 Gauge 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. Bettles.

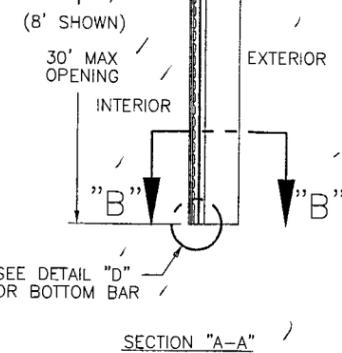
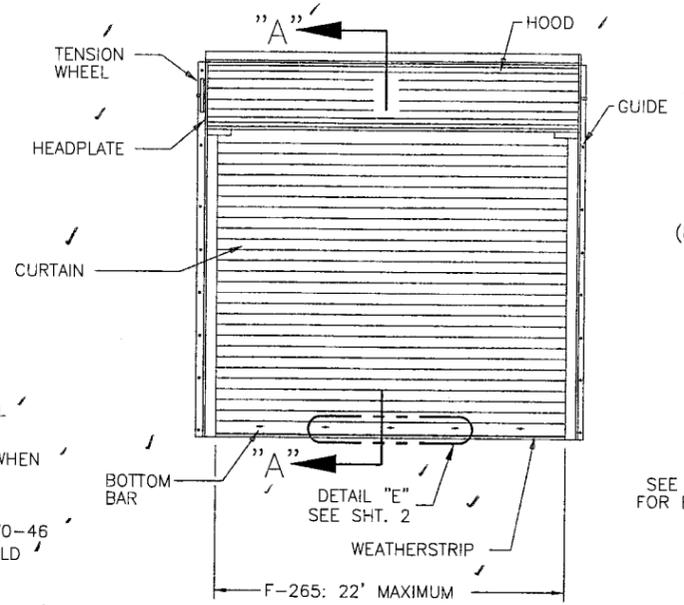
F. MATERIAL CERTIFICATIONS

N/A


Candido F. Font, PE
Senior Product Control Examiner
NOA No 05-1003.24
Expiration Date: October 14, 2009
Approval Date: September 28, 2006

NOTES

- (-W/L) = NEGATIVE WINDLOAD
(+W/L) = POSITIVE WINDLOAD
- WALL ANGLES MAY BE WELDED TO STEEL JAMB.
SEE SHEET 2 FOR WELDING DETAILS.
- RATED DESIGN LOAD ±65 PSF.
- CURTAIN MATERIAL: ASTM A-446 GRADE C-
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 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.
- THE DOOR MUST BE INSTALLED WITH THE TENSION WHEEL
FACING THE INSIDE OF THE BUILDING.
- PINS MUST BE ENGAGED AND CHAIN MUST BE HOOKED WHEN
HURRICANE WINDS ARE ANNOUNCED.
- WIND LOCKS ARE REQUIRED ON EACH SLAT
- 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)

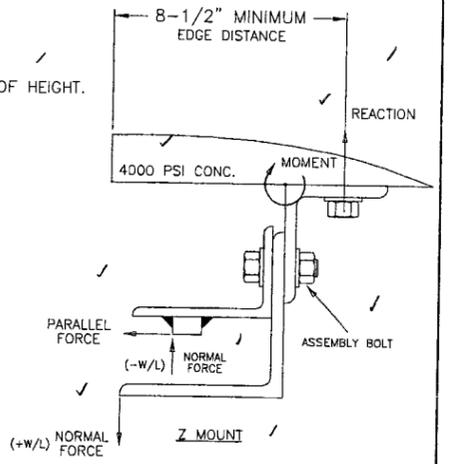
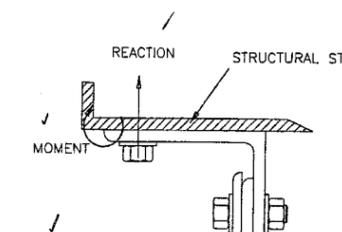
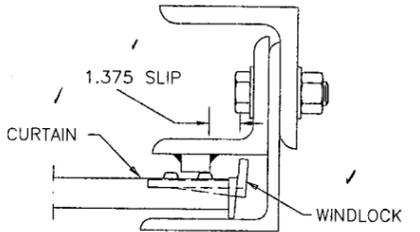


11. RIVET SPECIFICATIONS:

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.
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.



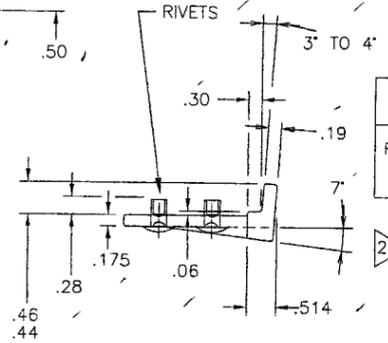
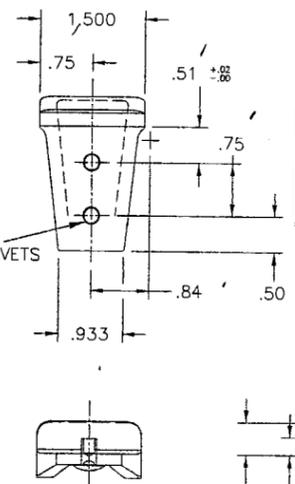
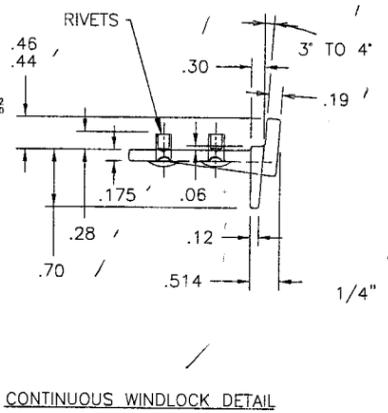
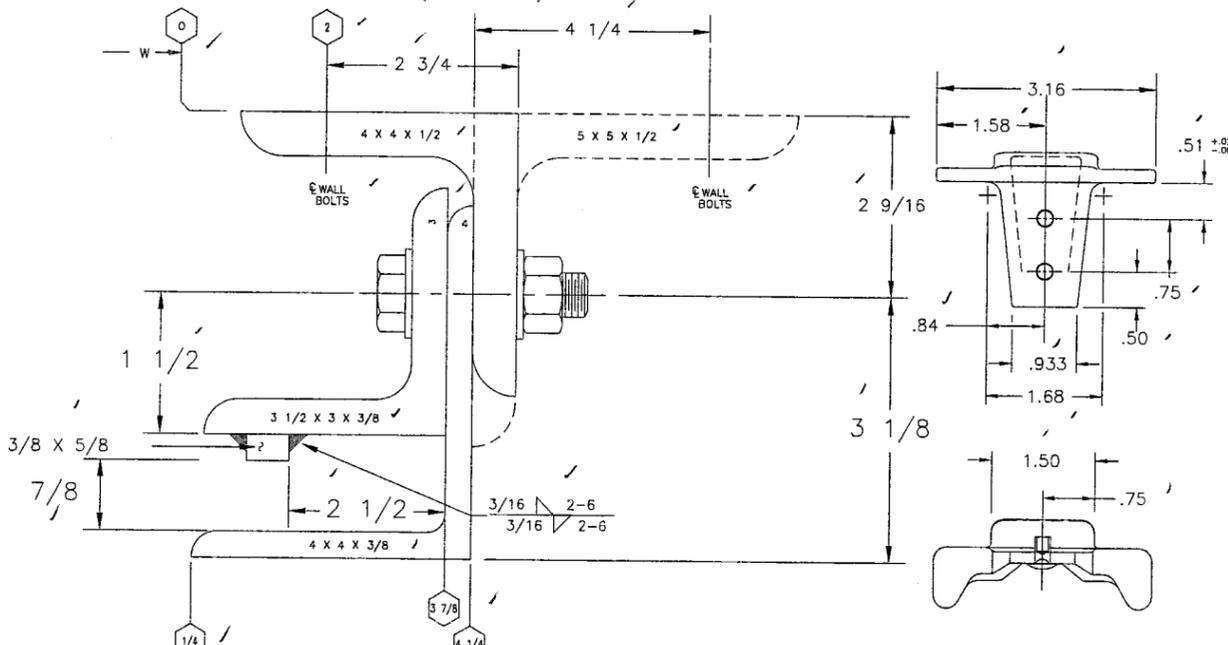
F-265 - DOOR SIZE REF. SUMMARY

LBS/FT DOOR HEIGHT	(E-MOUNT) LOADS *			(Z-MOUNT) LOADS *		
	22 GA **	20 GA	18 GA	22 GA **	20 GA	18 GA
REACTION	8935	8808	8591	3217	3179	3116
NORMAL	715	715	715	715	715	715
PARALLEL	2517	2481	2420	2517	2481	2420

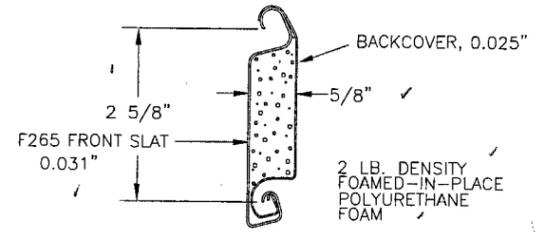
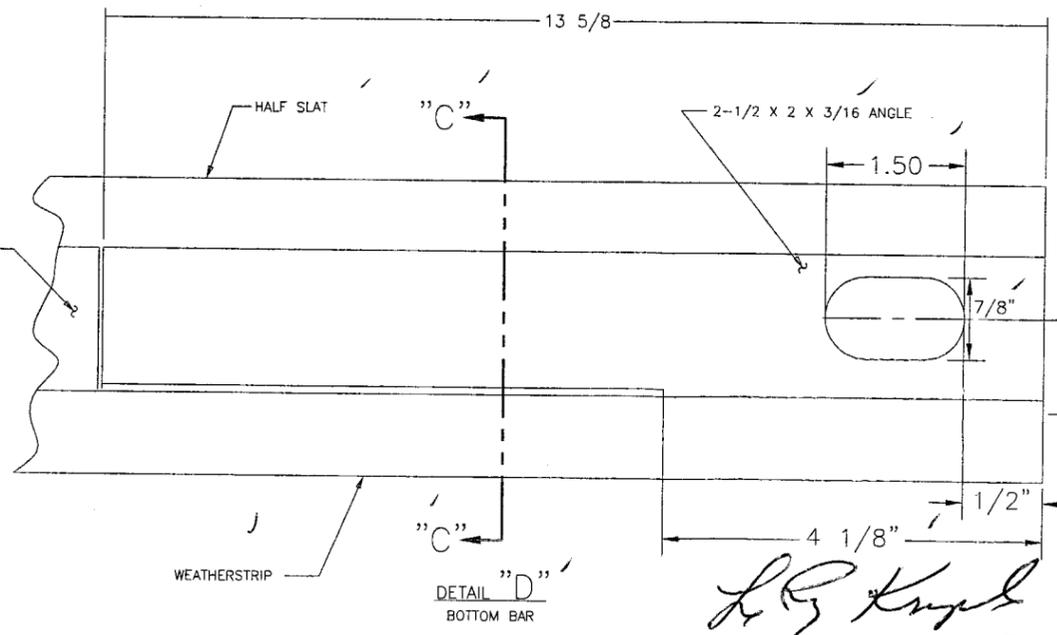
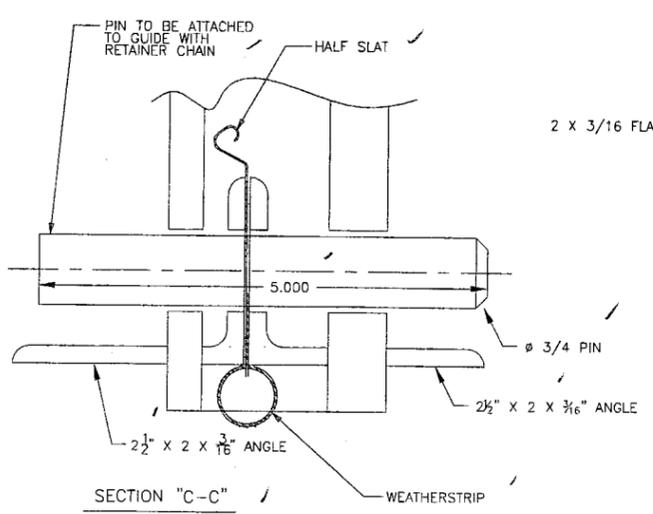
* LOADS - PER FOOT OF HEIGHT

	ASSEMBLY BOLT	WALL BOLT STEEL JAMB	WALL ATTACHMENT CONCRETE JAMB
FIP	5/8" GRADE 5, 10" O.C.	5/8" GRADE 5, 12" O.C.	5/8" X 5" EMB POWERS WEDGE BOLTS 9" O.C.

* 4000 PSI MINIMUM & 8-1/2" MINIMUM EDGE DISTANCE FOR ANCHORS.
NOTE: FOR DETAILS ON WELDING GUIDES TO STEEL JAMBS SEE SHEET 2.



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



Gauge Options: 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

05-1003.24
10/14/09
LeRoy G. Krupke

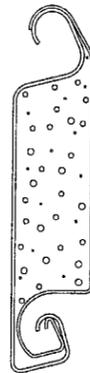
OVERHEAD DOOR CORPORATION
2501 SOUTH STATE HWY 121 BUSINESS
LEWISVILLE, TX 75067
LeROY G. KRUPKE, P.E. #36580

UNLESS OTHERWISE SPECIFIED			OVERHEAD DOOR		NAME		DATE		DRAWING TITLE	
DIMENSIONS ARE IN INCHES: TOLERANCES ON DECIMAL DIMENSIONS	HOLE DIAMETERS	ANGLES ± 0° 30'	the original way first		G FINERAN		8/8/03		SERIES 625, ROLLING SERVICE DOOR 22 FT. DADE COUNTY	
XX ± .03	UNDER .251-204-003	FRACTIONS ± 1/16"	MATERIAL: 4		CHECKED BY: JD FAW		9/5/03		DRAWING NUMBER D = 308134	
XXX ± .005	OVER .500-008-003		APPLIED FINISH: 4		APPROVED BY: L KRUPKE		9/5/03		SCALE: NONE SHEET 1 OF 3	

LeRoy Krupke
6-30-06

CALCULATIONS:

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)
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 22 GA. SLAT.

WINDLOCK SLIP DISTANCE = 1.375"/SIDE

W = DOOR WIDTH

W = 22 FT.

D = CURTAIN DEFLECTION

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

$$D = [(.75 \cdot .12 \cdot 22)(1.375)]^{1/2}$$

D = 16.5 IN.

S_v = YIELD STRESS OF SLAT MATERIAL

S_v = 40,000 PSI

E = MODULUS OF ELASTICITY

E = 29,000,000 PSI

Q_b = WINDLOAD HELD IN BENDING

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

$$Q_b = \frac{2(29,000,000)(0.0858)(16.5)}{45(22)^4}$$

Q_b = 7.79

$$Q_b = \frac{2(40,000)(0.0858)}{3(22^2)(0.403)}$$

Q_b = 11.73

Q = 65 PSF

Q_r = WINDLOAD HELD IN TENSION

$$Q_r = Q - Q_b$$

$$Q_r = 65 - 7.79$$

$$Q_r = 57.21 \text{ PSF}$$

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

T_e = 2517 LB/FT.

T_r = THRUST LOAD ON GUIDES PER FOOT OF HEIGHT.

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

T_r = 715 LB/FT.

T_s = TENSION/SLAT

$$T_s = 2517/4.494$$

T_s = 560 LB/SLAT

M_r = MAXIMUM RESULTANT MOMENT APPLIED TO JAMB Z-MOUNT

$$M_r = 2517(4.437) + 715(3.50)$$

M_r = 13670 IN·LB

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

$$M_r = 2517(4.437)$$

M_r = 11168 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

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

$$S_s = 560 / (2 \cdot 0.047)$$

S_s = 5957 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

$$S_w = (3 \text{ IN})(1 \text{ FT}/12 \text{ IN})(2517 \text{ LB}/\text{FT}) / (0.375 \text{ IN}^2)$$

S_w = 1678 PSI

WALL ATTACHMENT BOLTS

STEEL JAMB-MAX REACTION

R_b = WALL ATTACHMENT BOLT REACTION

$$R_b = (12/12)[11168]/1.250$$

R_b = 8935 LB.

CONCRETE JAMB-MAX REACTION

$$R_b = (7/12)[13670]/4.25$$

R_b = 2412 LB.

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

$$S_w = 12/12 (2517)/1.06$$

S_w = 2374 PSI

T_w = TENSION STRESS FROM BENDING AND NORMAL LOADS

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

$$T_w = 12/12 [715/1.06 + 13670 / [2 \times 2.75 \times .375 \times .707]]$$

T_w = 10049 PSI

R_w = RESULTANT WELD STRESS

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

R_w = 10326 PSI

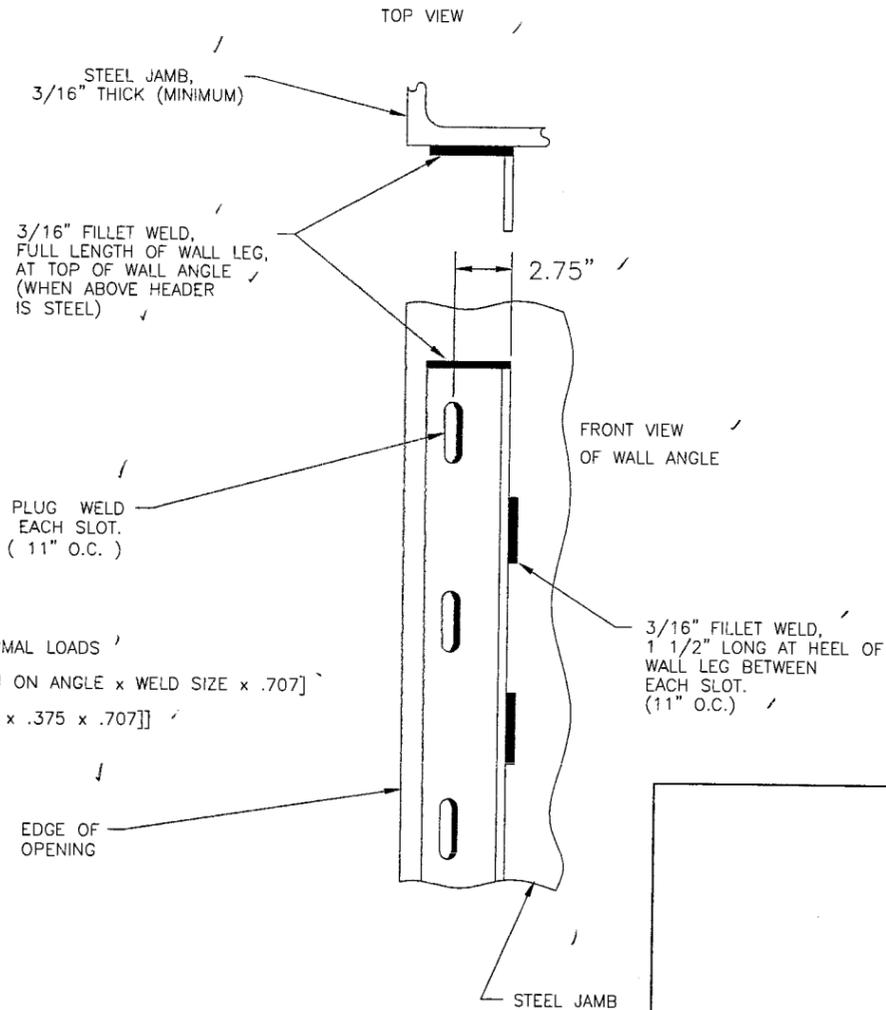
$$"S" = W + 7 \ 3/4"$$

$$\text{SLAT LG} = W + 5 \ 1/4"$$

$$\text{PIPE LG} = W + 3 \ 1/4"$$

$$\text{INSULATED BOTTOM BAR LG} = W + 5 \ 1/4" \text{ (COPE} = 4")$$

DETAILS FOR WELDING "E" GUIDES TO STEEL JAMBS



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

L. Krupke
6-3006

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

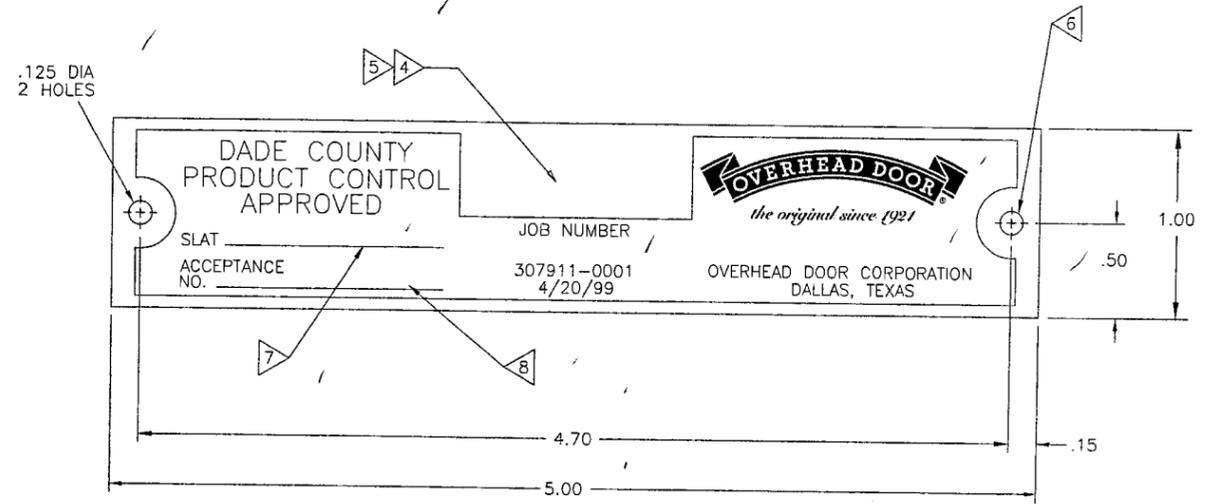
PROJECT NUMBER:
05-1003.24
10/14/09

UNLESS OTHERWISE SPECIFIED			OVERHEAD DOOR		NAME		DATE		DRAWING TITLE:	
DECIMAL DIMENSIONS	HOLE DIMETERS	ANGLES ± ° 30'	DALLAS, TEXAS		DRAWN BY:		DATE		SERIES 625, ROLLING SERVICE DOOR 22 FT. DADE COUNTY	
xxx = .03	UNDER 2511-004-003	FRACTIONS ± 1/16"	MATERIAL: 4		G FINERAN		8/8/03		DRAWING NUMBER	
xxx = .005	2511-004-003 OVER 500+208-003		APPLIED FINISH: 5		CHECKED BY: JD FAW		9/5/03		D-308134	
			UNIT OF MEASURE: N/A		APPROVED BY: L KRUPKE		9/5/03		SCALE: NONE SHEET 2 OF 3	

NOTES

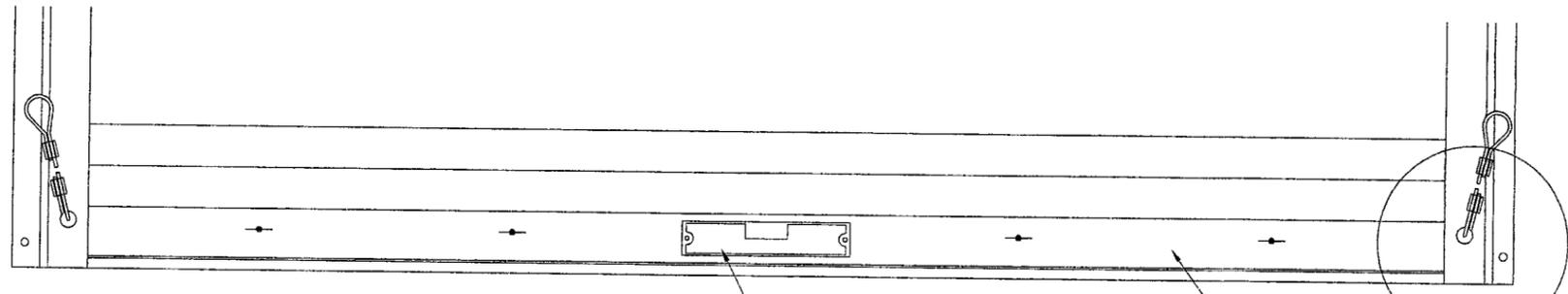
1. MATERIAL: ALUMINUM 3003 H14 (0.03 THICK) WITH TRANSPARENT KELSTRIP COVERING.
2. COLOR: HANSCHY RED CS 2311.
3. SOURCE: OHD ADVERTISING AND MERCHANDISING
1900 CROWN DRIVE
FARMERS BRANCH, TX 75234
4. STAMP FACTORY ORDER NUMBER HERE.
5. A LETTER MUST BE STAMPED ON ROLLING FIRE DOORS TO IDENTIFY MANUFACTURING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

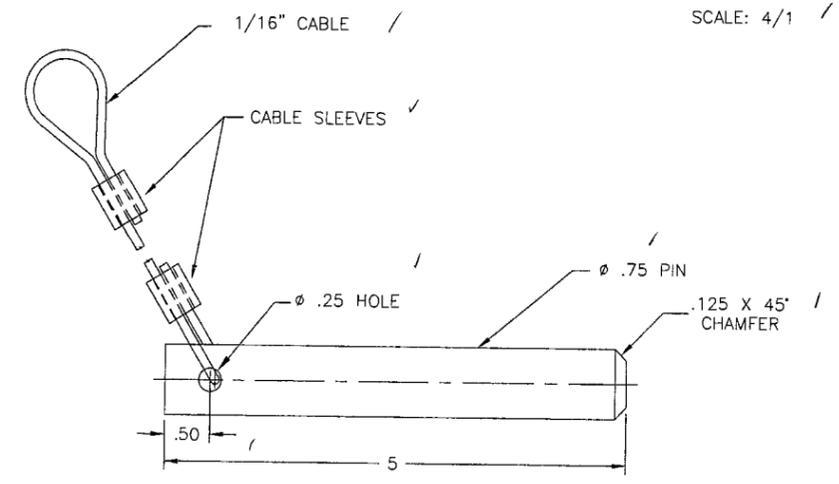


P/N 307911-0001 - DADE CO. APPROVAL TAG, ROLLING DOORS & GRILLES

SCALE: 2/1



DETAIL "E" SCALE: 4/1



DETAIL "F"

LeRoy G. Krupke
6-30-06

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

05-1003.24
10/14/09

UNLESS OTHERWISE SPECIFIED			OVERHEAD DOOR		NAME		DATE		DRAWING TITLE	
DECIMAL DIMENSIONS	HOLE DIAMETERS	ANGLES & 1/30"	DALLAS, TEXAS		DRAWN BY: M WOMACK		10/10/03		SERIES 625, ROLLING SERVICE DOOR 22 FT. DADE COUNTY	
XX ± .03	UNDER .251+.004-.003	FRACTIONS	MATERIAL: N/A		CHECKED BY: JD FAW		10/10/03		DRAWING NUMBER D = 308134	
XXX ± .005	OVER .506+.008-.003	& 1/16"	APPLIED FINISH: N/A		APPROVED BY: L KRUPKE		10/10/03		SCALE: NOTED SHEET 3 OF 3	