



**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 Rolling Insulated 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 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 # 03-1015.01 consists of this page 1, evidence page as well as approval document mentioned above.

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


09/28/06



**NOA No 05-1003.21
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-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.

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

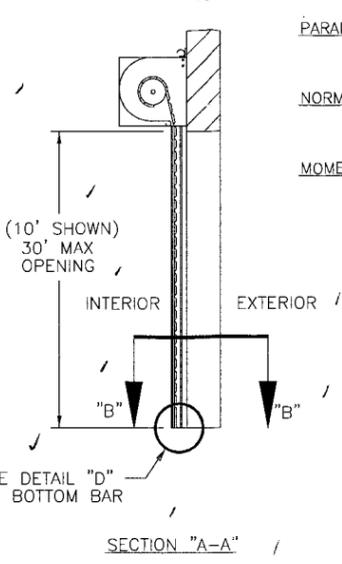
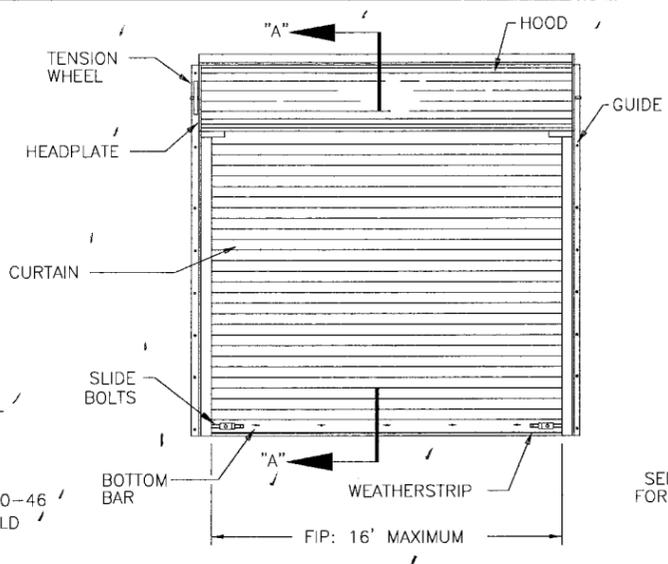

09/28/06
Candido F. Font, PE
Senior Product Control Examiner
NOA No 05-1003.21
Expiration Date: October 14, 2009
Approval Date: September 28, 2006

NOTES

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

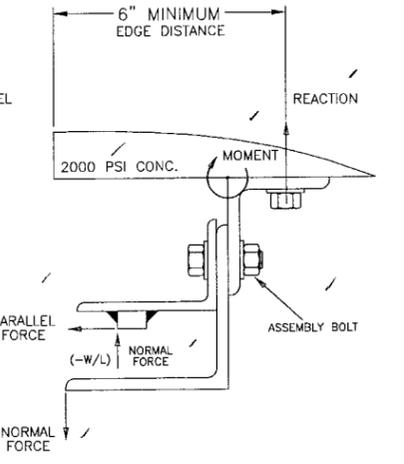
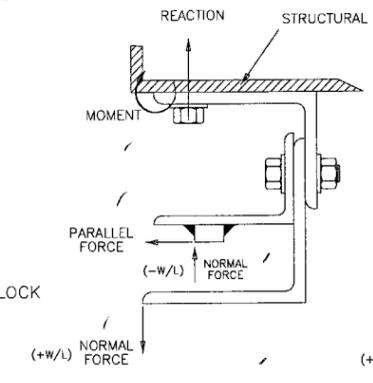
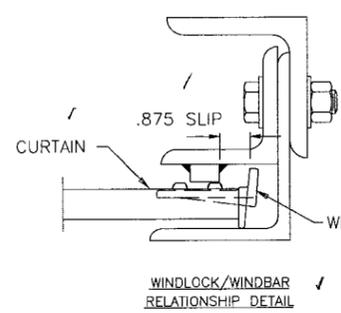
GRADE 30 = CARBON STEEL RIVET
CARBON STEEL MANDREL
GRADE 51 = STAINLESS STEEL RIVET
STAINLESS STEEL MANDREL



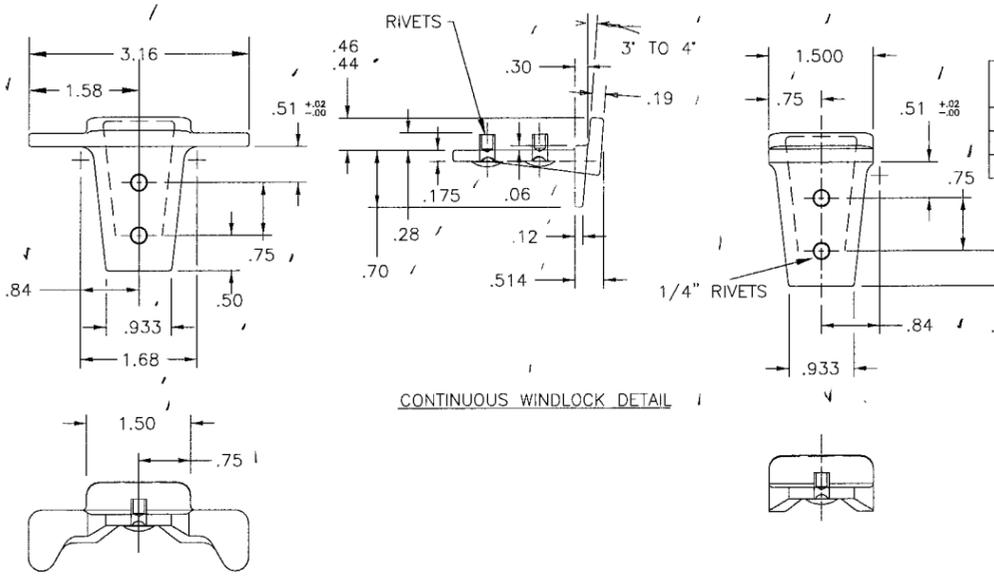
PARALLEL FORCE: THE CATENARY FORCE OF THE CURTAIN APPLIED TO THE WINDBAR IN POUNDS PER FOOT OF HEIGHT. SEE T_e IN CALCULATIONS.

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



| SHEET REVISION RECORD | | | REVISIONS | | | |
|-----------------------|---|---|-----------|------------------|---------|----------|
| 3 | 2 | 1 | LETTER | DESCRIPTION | DATE | APPROVAL |
| C | E | F | D | REV PER EN 20771 | 9/26/05 | LK |
| | | | E | REV PER EN 20807 | 6/16/06 | LK |
| | | | F | REV PER EN 20814 | 6-30-06 | LK |

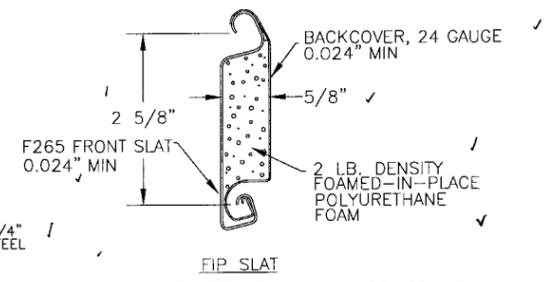
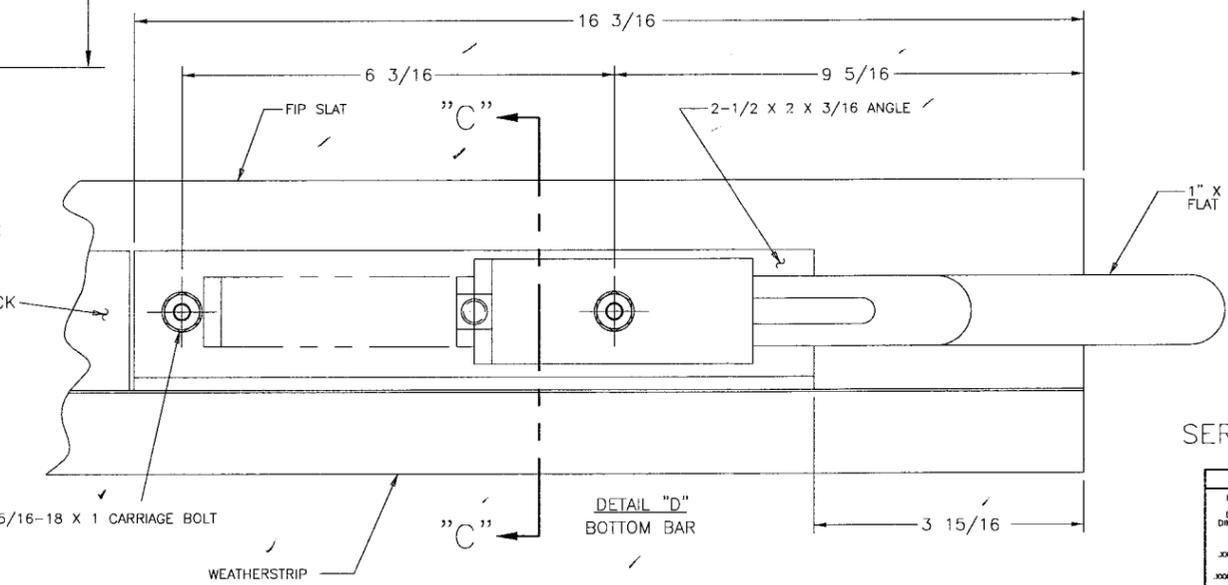
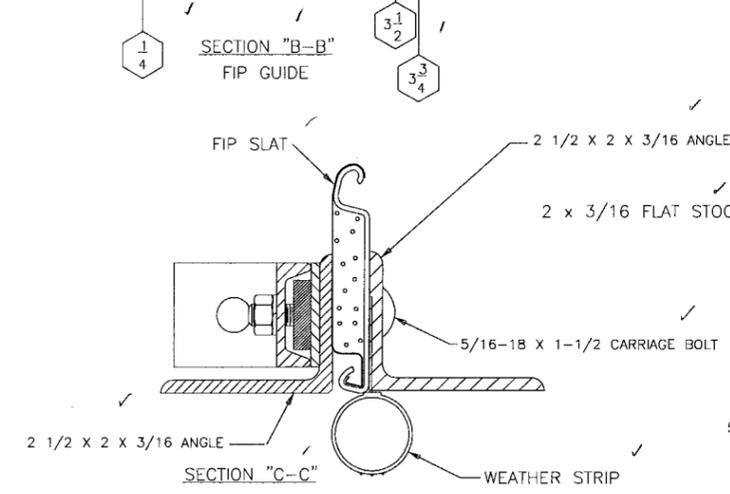
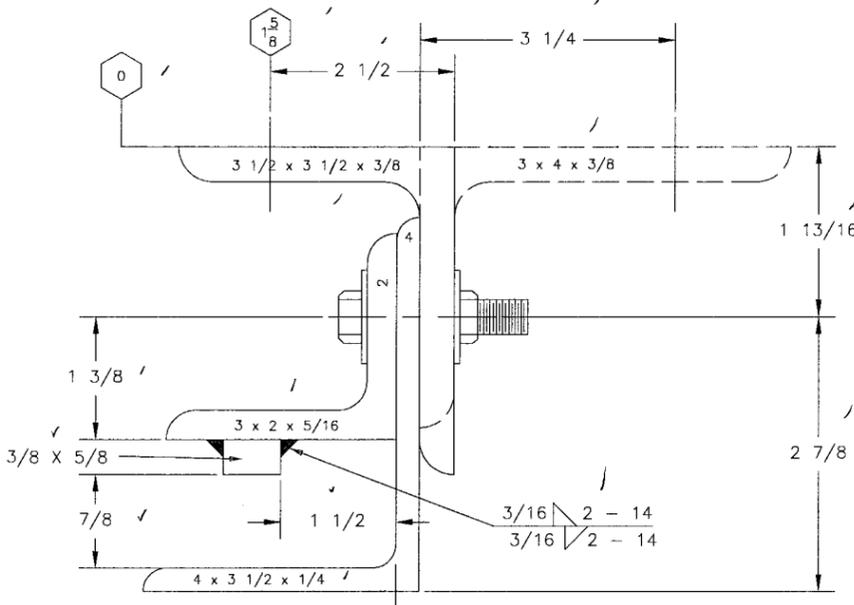


| LBS/FT DOOR HEIGHT | (E-MOUNT) LOADS | | | | (Z-MOUNT) LOADS * | | | |
|--------------------|-----------------|-------|-------|-------|-------------------|-------|-------|-------|
| | 24 GA ** | 22 GA | 20 GA | 18 GA | 24 GA ** | 22 GA | 20 GA | 18 GA |
| REACTION | 6172 | 6005 | 5766 | 5353 | 2119 | 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 | | OVERHEAD DOOR | | DALLAS, TEXAS | | DATE | | DRAWING TITLE | |
|--|-------|---------------|-------|---------------|-------|--------|--|----------------|----------|
| DIMENSIONS ARE IN INCHES. TOLERANCES ON DECIMAL DIMENSIONS | ±.03 | ±.01 | ±.02 | ±.01 | ±.02 | 8/8/03 | SERIES 626, ROLLING SERVICE DOOR 16' DADE COUNTY | DRAWING NUMBER | D-308124 |
| DIAMETERS | ±.001 | ±.002 | ±.003 | ±.004 | ±.005 | 9/5/03 | | SCALE | NONE |
| ANGLES ± 0° 30' | ±.001 | ±.002 | ±.003 | ±.004 | ±.005 | 9/5/03 | | SHEET | 1 OF 3 |
| FRACTIONS ± 1/16" | ±.001 | ±.002 | ±.003 | ±.004 | ±.005 | | | | |

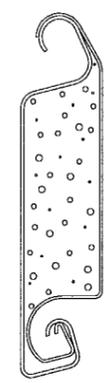
05-1003-21
10/14/09
LeROY G. KRUPKE, P.E. #36580

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

| 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 |

CALCULATIONS:

24, 22, 20 AND 18 GA



$Q = 65 \text{ PSF}$

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

$Q_T = Q - Q_b$

$Q_T = 65 - 17.56$

$Q_T = 46.07 \text{ PSF}$

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

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

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

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

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

$T_s = \text{TENSION/SLAT}$

$T_s = 1623/4.494$

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

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

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

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

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

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

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

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

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

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

$D = 11.22 \text{ IN.}$

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

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

E = MODULUS OF ELASTICITY

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

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

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

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

$Q_b = 17.56$

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

$Q_b = 21.15$

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.)

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

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

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

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

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

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

$S_s = 3840 \text{ PSI}$

WINDBAR WELDS

$A_w = \text{AREA OF WELD}$

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

$A_w = (2)(0.1875)$

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

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

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

$S_w = 2525 \text{ PSI}$

WALL ATTACHMENT BOLTS

STEEL JAMB-MAX REACTION

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

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

$R_b = 6172 \text{ LB.}$

CONCRETE JAMB-MAX REACTION

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

$R_b = 1412 \text{ LB.}$

WALL ATTACHMENT WELD

$A_w = \text{AREA OF WELD}$

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

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

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

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

$S_w = 1986 \text{ PSI}$

$T_w = \text{TENSION STRESS FROM ON WELD FROM BENDING}$

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

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

$T_w = 7380 \text{ PSI}$

$R_w = \text{RESULTANT WELD STRESS}$

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

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

$R_w = 7642 \text{ PSI}$

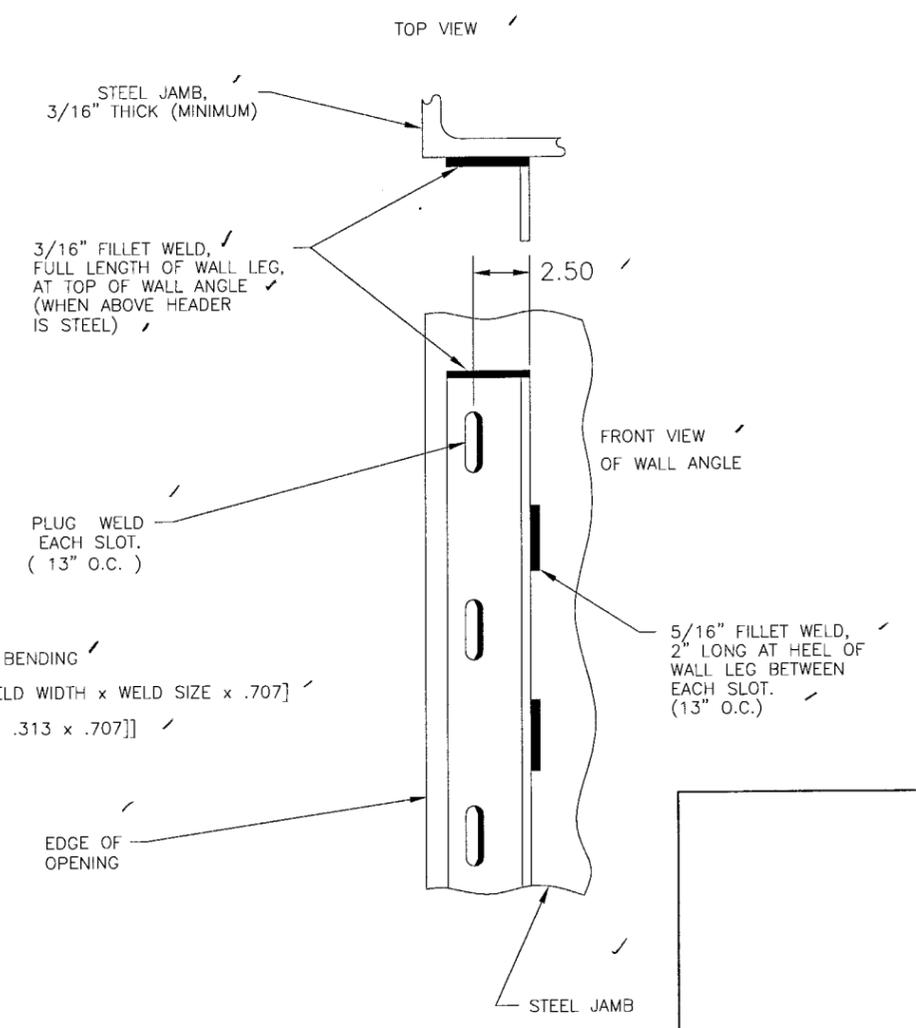
"S" = W + 7"

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



L.R. Krupke
6-30-06

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

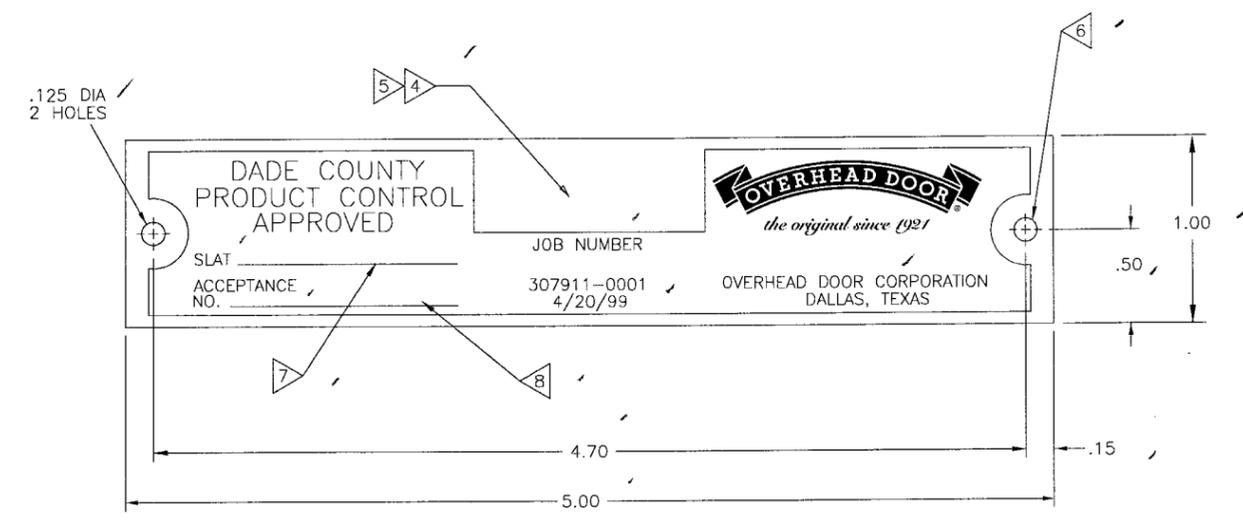
05-1003.21
10/14/09

| UNLESS OTHERWISE SPECIFIED | | | OVERHEAD DOOR CORPORATION | | DRAWING TITLE: | |
|----------------------------|-----------------------|----------------------|---------------------------|--------|--|--|
| DIMENSIONS | DECIMAL DIMENSIONS | FRACTIONS | NAME | DATE | SERIES 625, ROLLING SERVICE DOOR 16' DADE COUNTY | |
| XX ± .03 | UNDER .251-.004-.003 | UNDER .251-.004-.003 | K WILSON | 8/8/03 | DRAWING NUMBER: D-308124 | |
| XXX ± .005 | 251 TO .500+.006-.003 | OVER .500+.008-.003 | JD FAW | 9/5/03 | SCALE: NONE SHEET 2 OF 3 | |
| | | | L KRUPKE | 9/5/03 | | |

NOTES

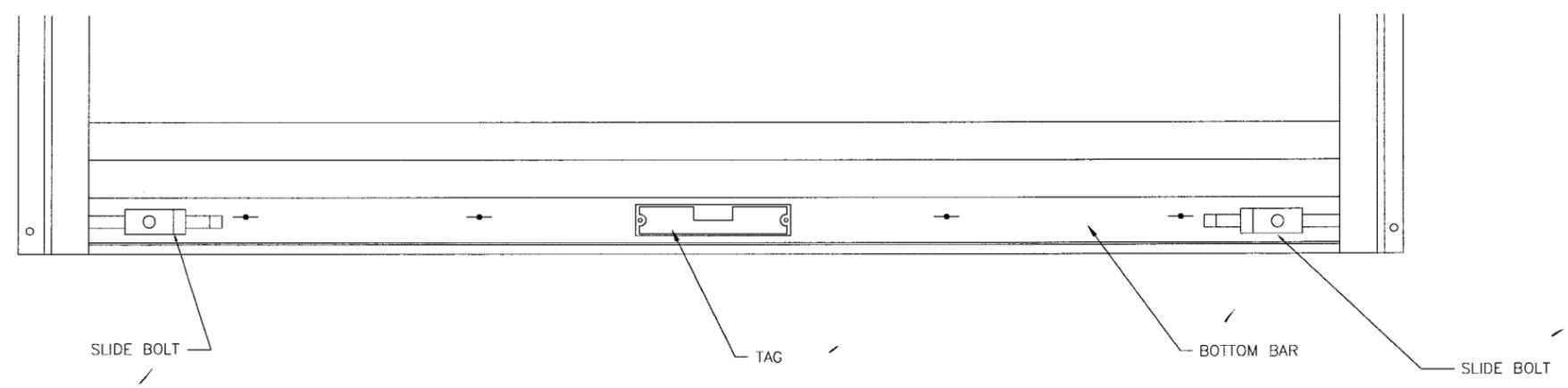
1. MATERIAL: ALUMINUM 3003 H14 (0.03 THICK) WITH TRANSPARENT KELSTRIP COVERING.
2. COLOR: HANSCHY RED CS 2311.
3. SOURCE: OHD ADVERTISING AND MERCHANDISING 1900 CROWN DRIVE FARMERS BRANCH, TX 75234
4. STAMP FACTORY ORDER NUMBER HERE.
5. A LETTER MUST BE STAMPED ON ROLLING FIRE DOORS TO IDENTIFY MANUFACTURING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

L. Krupke
6-30-06

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

LeROY G. KRUPKE, P.E. #36580

05-1003.21
10/14/09

| UNLESS OTHERWISE SPECIFIED | | | | OVERHEAD DOOR | | NAME | | DATE | | DRAWING TITLE | |
|---|----------------------------|-------------------|--|--------------------|--|---------------|--|-----------|--|--|--|
| DIMENSIONS ARE IN INCHES-TOLERANCES ON DECIMAL DIMENSIONS | | HOLE DIAMETERS | | ANGLES ON ± 9° 30' | | DALLAS, TEXAS | | DRAWN BY: | | SERIES 625, ROLLING SERVICE DOOR 16" DADE COUNTY | |
| .XX ± .03 | UNDER .251 ± .004 - .003 | FRACTIONS ± 1/16" | | MATERIAL: | | M WOMACK | | 10/10/03 | | DRAWING NUMBER | |
| .XXX ± .005 | .251 TO .500 ± .008 - .003 | | | N/A | | CHECKED BY: | | 10/10/03 | | D = 308124 | |
| | OVER .500 ± .008 - .003 | | | APPLIED FINISH: | | L KRUPKE | | 10/10/03 | | SCALE: NOTED SHEET 3 OF 3 | |
| | | | | UNIT OF MEASURE: | | | | | | | |