



**MIAMI-DADE COUNTY**  
**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](http://www.miamidade.gov/buildingcode)

**Cornell Iron Works, Inc.**  
**100 Elmwood Avenue**  
**Mountaintop, PA 18707**

**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: 14'-5" Wide Insulated Steel Roll-up Door**

**APPROVAL DOCUMENT:** Drawing No. **ES16-28-01**, titled "Dade County Approved 14'-5" wide 120 psf Insulated Rolling Steel Door", sheets 1 and 2 of 2, dated 11/21/06, with revision A dated 12/04/08, prepared by Cornell Iron Works, Inc, signed and sealed by Joseph H. Dixon, Jr., 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 # **06-1205.07** 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]*  
 3/11/09

**NOA No. 08-1219.05**  
**Expiration Date: May 10, 2012**  
**Approval Date: April 1, 2009**  
 Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **ES16-28-01**, titled "Dade County Approved 14'-5" wide 120 psf Insulated Rolling Steel Door", sheets 1 and 2 of 2, dated 11/21/06, with revision A dated 12/04/08, prepared by Cornell Iron Works, Inc, signed and sealed by Joseph Dixon Jr, P.E.

**B. TESTS**

1. Test reports on 1) Uniform Static Air Pressure Test (Structural only) per FBC, TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings of Model ESD20 Thermiser Galvanized Steel Roll-up Door, Report No. **CTLA-1600W**, prepared by Certified Testing Laboratories, dated 11/28/06, signed and sealed by Ramesh Patel, P.E.
2. Test report on Tensile Test per ASTM E8 of Galvanized Steel, Report No. **CTLA-1600W** and **1600W-1**, prepared by Certified Testing Laboratories, dated 12/04/06, signed and sealed by Ramesh Patel, P.E.
3. Test report on Evaluation of Painted Panels Test per ASTM D 1654 (ASTM B 117), Report No. **ETC-06-1071-18365.0**, prepared by ETC Laboratories, dated 11/02/06, signed and sealed by Joseph L. Doldan, P.E.
4. Test report on Ignition Temperature per ASTM D1929 and Flame Spread/ Smoke generation per ASTM E84, Report No. **ETC-07-1071-18738.0**, prepared by ETC Laboratories, dated 02/15/07, signed and sealed by Joseph L. Doldan, P.E.  
*"Submitted under NOA # 06-1205.07"*

**C. CALCULATIONS**

1. Anchoring calculations and structural analysis, dated 11/18/06, and 12/15/08, prepared, signed and sealed by Joseph H. Dixon, Jr., P.E.

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

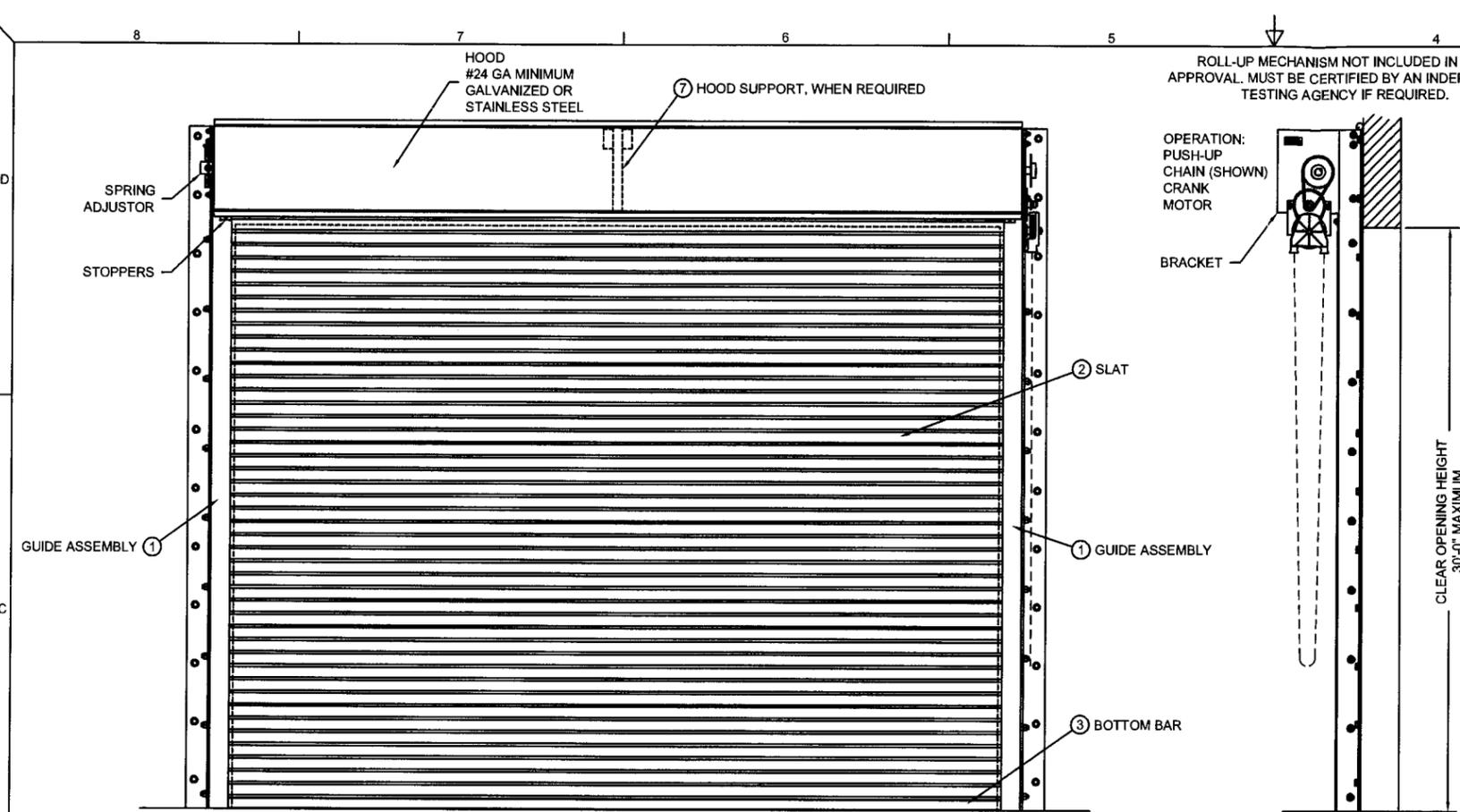
1. None.

**F. STATEMENTS**

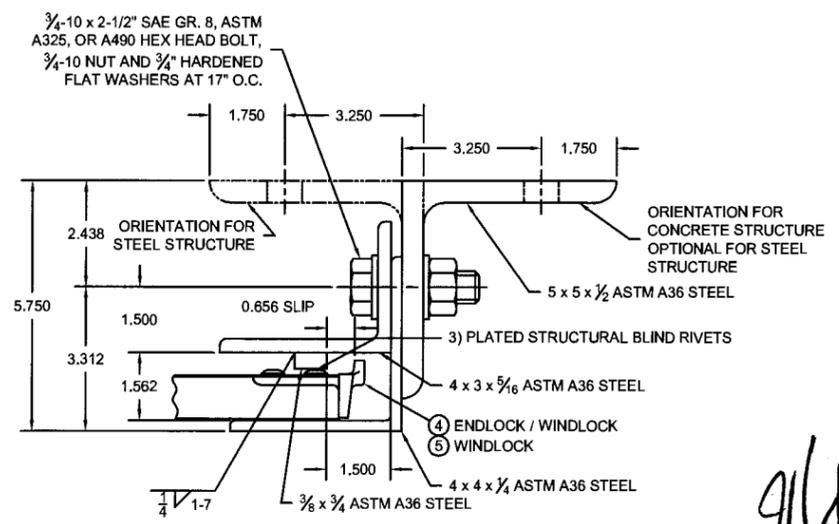
1. Statement letter of code conformance, dated 12/17/08, signed and sealed by Joseph H. Dixon, Jr., P.E.
2. Statement letter of no financial interest, dated 12/15/08, signed and sealed by Joseph H. Dixon, Jr., P.E.

  
3/11/09  
\_\_\_\_\_  
Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 08-1219.05  
Expiration Date: May 10, 2012  
Approval Date: April 1, 2009

LTR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/21/2006	R.M.	*
A	REVISED NOTES FOR 2007 BUILDING CODE	12/04/2008	R.M.	*

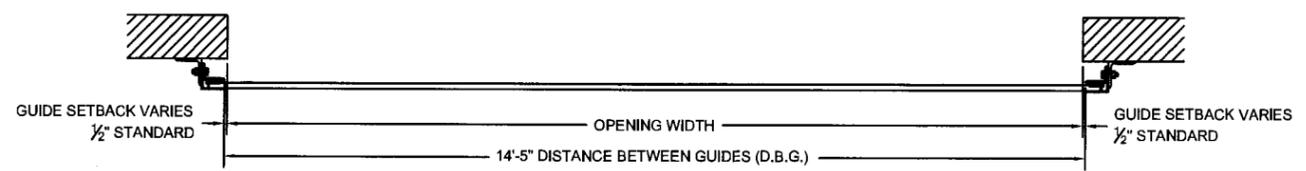


ROLL-UP MECHANISM NOT INCLUDED IN THIS APPROVAL. MUST BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY IF REQUIRED.



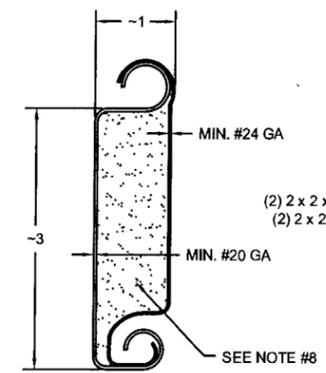
1 GUIDE ASSEMBLY DETAIL 1/2 SCALE

*Handwritten signature and date:*  
12/15/08  
FL 7768



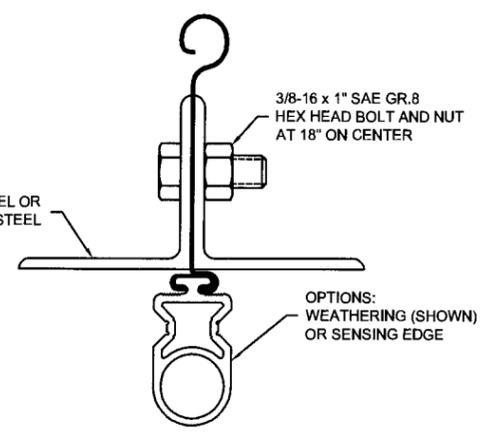
**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 08-1219-05  
Expiration Date 05/10/2012  
By *[Signature]*  
Miami Dade Product Control Division

- NOTES:
- THIS ROLL-UP DOOR SYSTEM IS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, LATEST EDITION, AS A LARGE MISSILE IMPACT RESISTANT SYSTEM.
  - POSITIVE AND NEGATIVE DESIGN PRESSURE CALCULATIONS SHALL BE PERFORMED FOR SPECIFIC JOBS IN ACCORDANCE WITH ASCE 7 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. WIND LOADS DETERMINED FOR OPENINGS SHALL BE LESS THAN OR EQUAL TO DOOR DESIGN PRESSURES NOTED BELOW.
  - THE DETAILS AND SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED FOR UNIFORM STATIC AIR PRESSURE IN CONFORMANCE WITH DADE COUNTY PROTOCOLS TAS 201, 202 AND 203.  
POSITIVE DESIGN LOAD = 120 PSF  
NEGATIVE DESIGN LOAD = 120 PSF
  - TESTING PERFORMED BY CERTIFIED TESTING LABORATORIES (ORLANDO, FL.) TEST REPORT No. CTLA-1600W.
  - SUPERIMPOSED LOADS ON THE JAMBS FROM THIS DOOR ARE DESIGNATED AS F1, F2 AND F3 HEREIN. CONTRACTORS SHALL HAVE FLORIDA REGISTERED PROFESSIONAL ENGINEER VERIFY ADEQUACY OF BUILDING STRUCTURE TO RESIST SUPERIMPOSED LOADS F1, F2, AND F3.
  - ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO AWS A5.1, GRADE E-70. MINIMUM WELDING PROCESS SHALL BE ARC WELDING AWS E7014 OR MIG WELDING AWS E705-6.
  - ANCHOR NOTES:  
A. EMBEDMENT DEPTH DOES NOT INCLUDE STUCCO FINISH.  
B. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
  - FOAMED IN PLACE INSULATION, TESTED IN ACCORDANCE WITH ASTM E-84 AND D-1929 OR MINERAL WOOL INSULATION.
  - DOOR MAY BE INSTALLED ON THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL.
  - A 33% INCREASE IN ALLOWABLE STRESS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT.

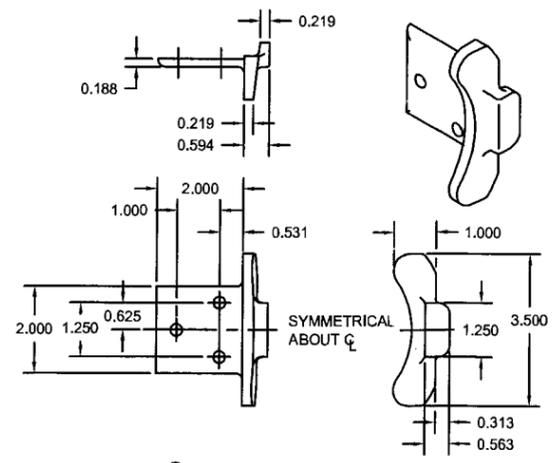


2 SLAT DETAIL TYPICAL SECTION

ASTM A653 HSLAS TYPE B GRADE 40 G60 OR  
ASTM A653 HSLAS TYPE A GRADE 40 G60 OR  
ASTM A653 STRUCTURAL STEEL, GRADE 40 G60  
OR TYPE 304 STAINLESS STEEL (MIN. YIELD 40,000 psi)  
OR TYPE 430 STAINLESS STEEL (MIN. YIELD 40,000 psi)  
OR TYPE 201 STAINLESS STEEL (MIN. YIELD 40,000 psi)  
FULL SCALE

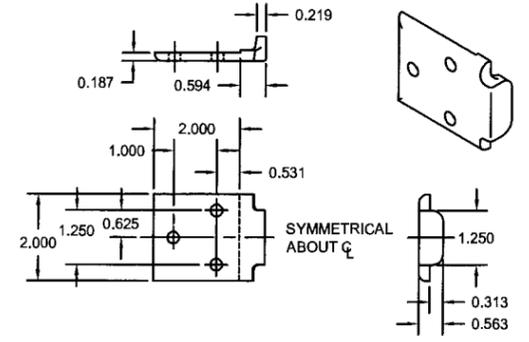


3 BOTTOM BAR DETAIL TYPICAL SECTION FULL SCALE



4 ENDLOCK / WINDLOCK DETAIL

CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING  
1/2 SCALE



5 WINDLOCK DETAIL

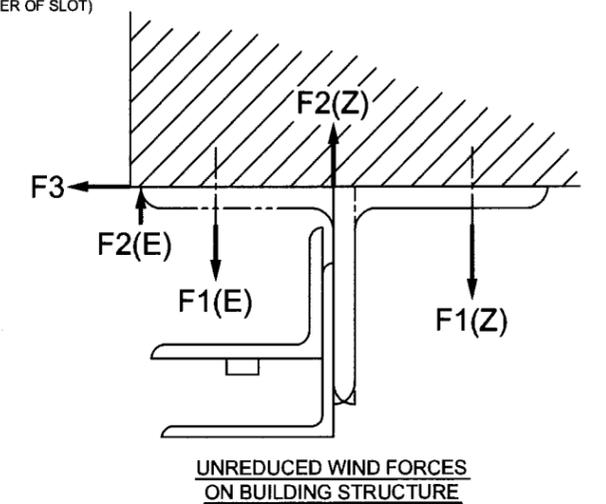
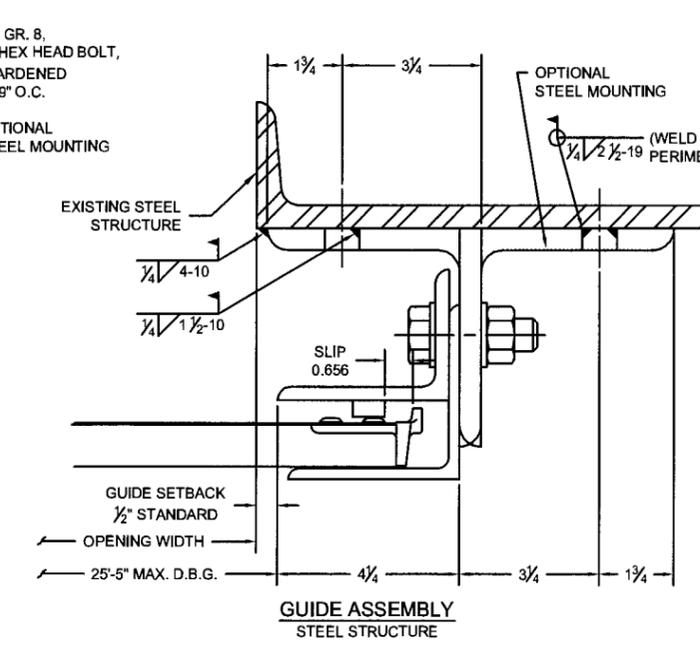
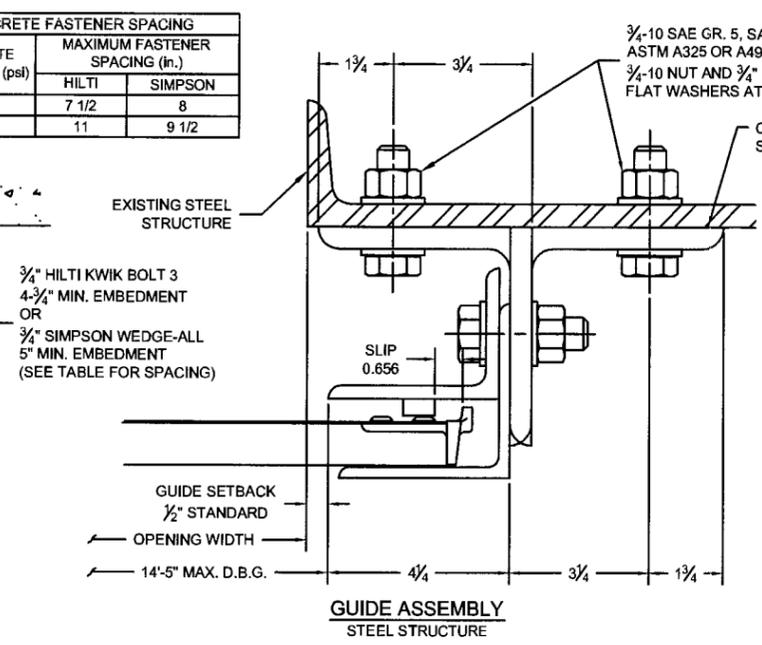
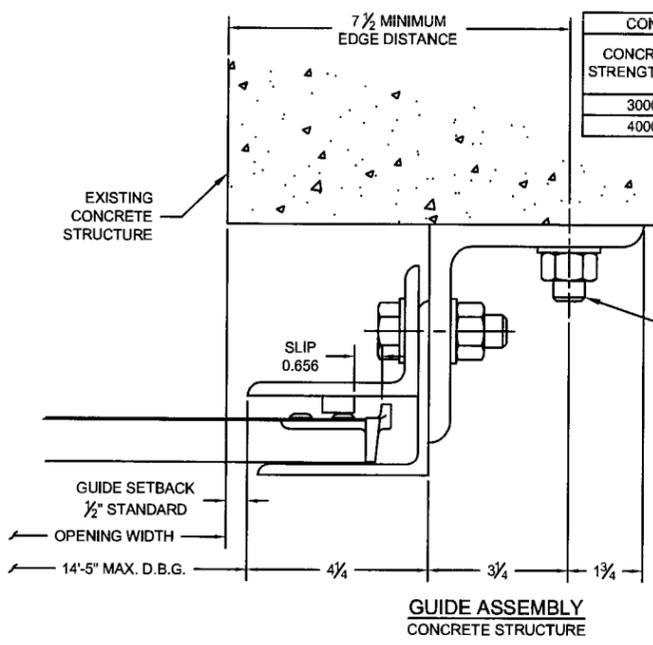
CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING  
1/2 SCALE

**CORNELL** 100 ELMWOOD AVENUE  
CRESTWOOD INDUSTRIAL PARK  
MOUNTAINTOP, PA 18707

TITLE			
DADE COUNTY APPROVED			
14'-5" WIDE 120 PSF INSULATED			
ROLLING STEEL DOOR			
SIZE	DRAWN	DWG NO	REV
D	R. MAGGIO	ES16-28-01	A
SCALE 1:16 & AS NOTED		SHEET 1 OF 2	

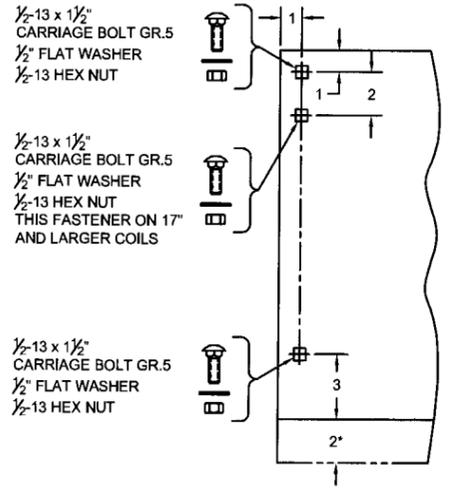
LTR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	05/23/2007	R.M.	****
A	REVISED FOR 2007 FLORIDA BUILDING CODE	12/04/2008	R.M.	****

CONCRETE STRENGTH (psi)	MAXIMUM FASTENER SPACING (in.)	
	HILTI	SIMPSON
3000	7 1/2	8
4000	11	9 1/2

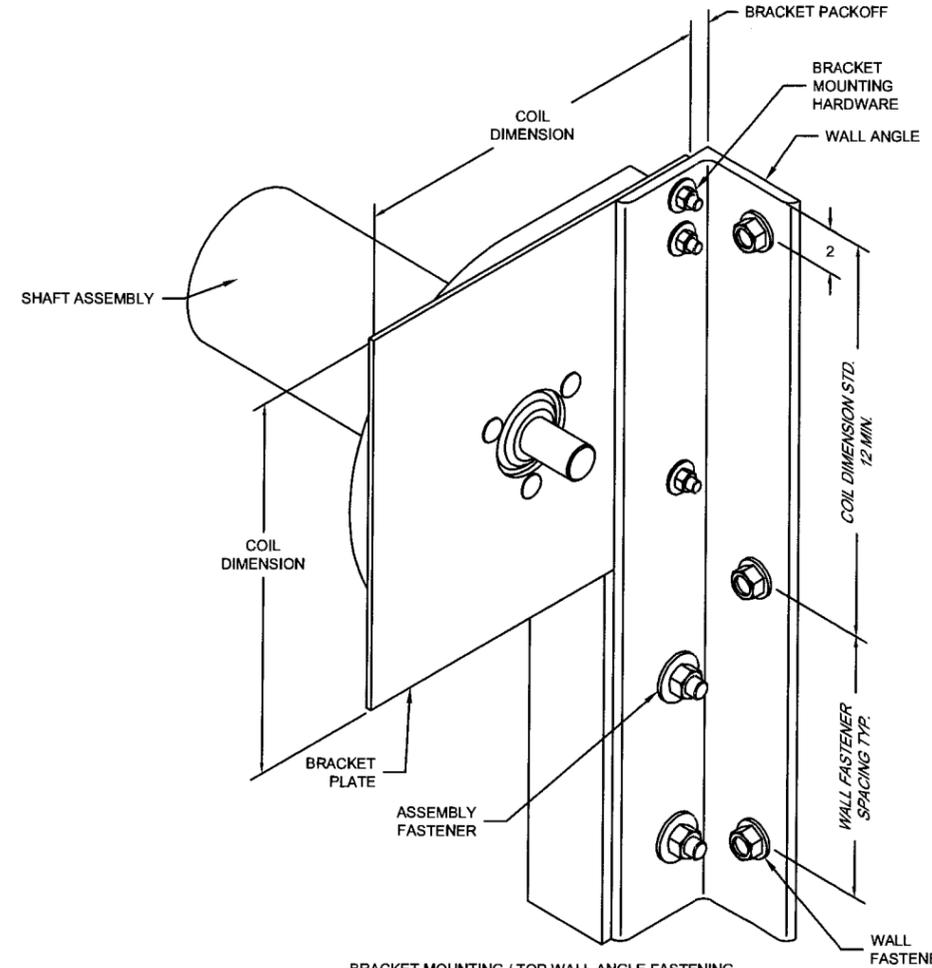


**BUILDING DESIGNER NOTE:**  
STRUCTURE MUST BE DESIGNED TO SUPPORT F1, F2, AND F3 FORCES (LBS./FT. OF OPENING HEIGHT) AT EACH JAMB.

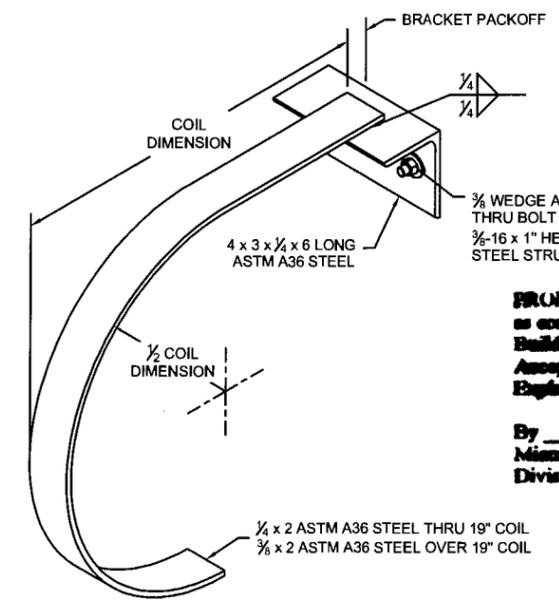
FORCES ON STRUCTURE (LBS / FOOT OF HEIGHT)											
Z-GUIDE						E-GUIDE					
POSITIVE			NEGATIVE			POSITIVE			NEGATIVE		
F1	F2	F3	F1	F2	F3	F1	F2	F3	F1	F2	F3
2287	1422	2614	4134	4999	2614	6471	5606	2614	5454	6319	2614



6 BRACKET MOUNTING DETAIL  
0.172 MIN. THICKNESS  
\* 2" EXTENSION WHEN 8" AND LARGER SHAFT ASSEMBLY IS SUPPLIED  
SCALE: FULL



BRACKET MOUNTING / TOP WALL ANGLE FASTENING  
BRACKET MOUNTING PER DETAIL 6 DEPICTED.  
OTHER BRACKET MOUNTINGS ARE AVAILABLE  
SCALE: NTS



7 MID-HOOD SUPPORT DETAIL  
(WHEN REQUIRED)  
SCALE: NTS

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Amendment No 08-1219-05  
Expiration Date 05/10/2012  
By *[Signature]*  
Miami Dade Product Control Division

*[Handwritten Signature]*  
12/15/08  
FL 7768

**CORNELL** 100 ELMWOOD AVENUE  
CRESTWOOD INDUSTRIAL PARK  
MOUNTAINTOP, PA 18707

TITLE  
DADE COUNTY APPROVED  
14'-5" WIDE 120 PSF INSULATED  
ROLLING STEEL DOOR

SIZE DRAWN DWG NO REV  
D R. MAGGIO ES16-28-02 A

SCALE 1:2 & AS NOTED SHEET 2 OF 2