



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) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Raynor Garage Doors
1101 East River Road
Dixon, IL 61021

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: Duracoil Rolling Door

APPROVAL DOCUMENT: Drawing No.P-1942, Titled Specifications, Windload Doors For Florida Dade County Approval Sheet 1 of 4 dated 08/24/07 with last revision on 05/30/08, sheet 2,3 and 4 dated 08/24/07 prepared by Raynor signed and sealed by Richard A. Baumann P.E., on 06/03/08 and 10/22/08 respectively, bearing the Miami-Dade County Product Control approval 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", 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, consists of this page, evidence page E1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Mohammed Iqbal Shaikh, P.E.**



NOA No. 08-0709.08
Expiration Date: 11/13/ 13
Approval Date:11/13/08

Raynor Garage Doors.

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

A DRAWINGS:

Drawing No.P-1942, Titled Specifications, Windload Doors For Florida Dade County Approval Sheet 1of 4 dated 08/24/07 with last revision on 05/30/08, sheet 2,3 and 4 dated 08/24/07, prepared by Raynor, signed and sealed by Richard A. Baumann P.E., on 06/03/08 and 10/22/08

B TESTS:

1. Test report on Uniform Static Air Pressure per TAS 202, Large Missile Impact Test per TAS 201 and Cyclic Wind Pressure Test per TAS 203 of Duracoil Rolling Door System", prepared by Hurricane Test Laboratories Report # G493-0202-08, dated 2/04/08, signed and sealed by V. J. Abraham, P.E.

C CALCULATIONS:

1. Structural calculations signed and sealed by Richard A. Baumann P.E, sheets 1 to 3 each, four E type and six Z type Guides,

D QUALITY ASSURANCE:

1. Miami-Dade County. Building Code Compliance Office.

E STATEMENTS:

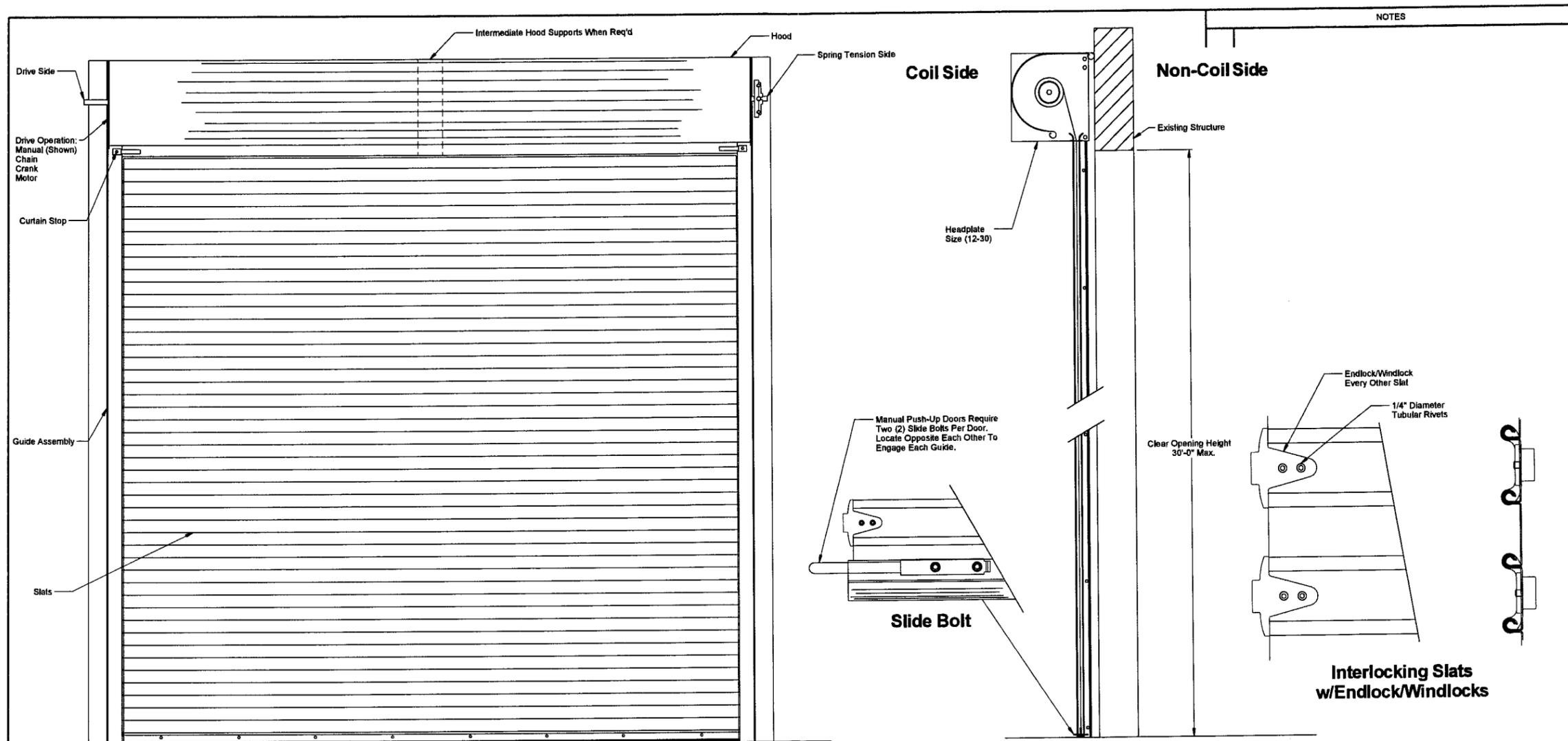
1. No Financial interest letter issued by Wendler Engineering Services, Inc., on 05/19/08, signed and sealed by Richard A. Baumann, P.E.
2. Code Compliance letter issued by Wendler Engineering Services, Inc., on 05/19/08, signed and sealed by Richard A. Baumann, P.E.

F. MATERIAL CERTIFICATIONS:

1. Test Report on Tensile Test per ASTM E-8, prepared by Certified Testing Laboratories, dated 04/25/08, by Chris Reed
2. Self Ignition Test , Project #06A64113, Client File # R 25153 by Underwriters Laboratory Inc. per ASTM D1929 by Tom Lockhouse dated 02/24/07 .
3. Surface Burning Characteristics per ASTM A 84, NOA # 08-0111.08 expiring on 04/14/13 issued to Atlas Roofing Corporation

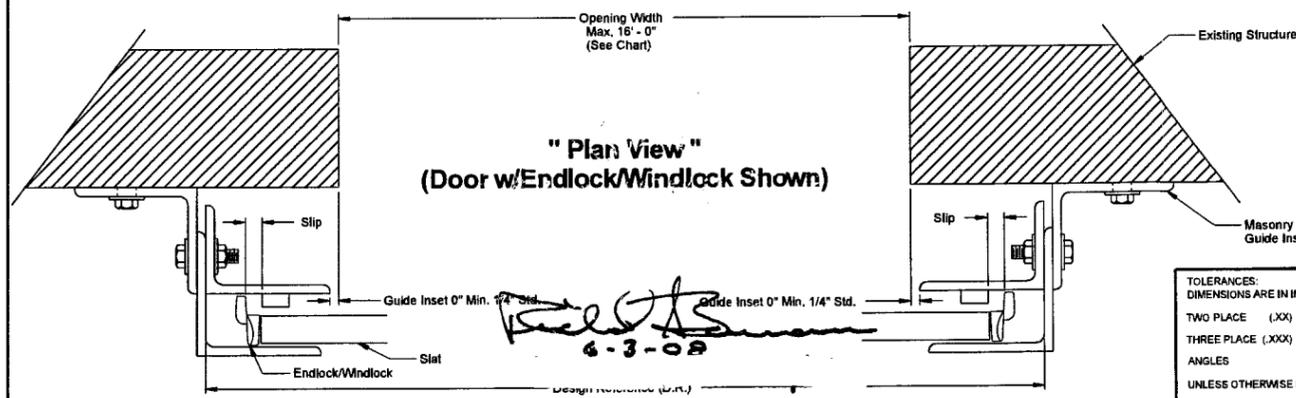


Mohammed Iqbal Shaikh, P.E.
Senior Building Code Compliance Specialist
NOA No. 08-0709.08
Expiration Date: 11/13/13
Approval Date: 11/13/08



" Elevation View "

Section Thru Opening



" Plan View "
(Door w/Endlock/Windlock Shown)

Doors Tested Per TAS 202
for Static Air Pressure

Tested Per TAS 201, TAS 203
for
Large Missile Impact (50Ft/Sec.) and
Cyclic Wind Pressure
Design Pressure +/- 65 PSF

Approved as complying with the
Florida Building Code
Date 11/13/08
NOA# 08-0729-08
Miami Dade Product Control
Division
By *M. Shark*

| REV. | DESCRIPTION | ECN. NO. | DATE |
|------|--|----------|-------------------|
| B | Added note 11, B1) was "Steel Gauge" B2) Fx load was 1694 B3) Fx load was 856. | B.B. | 5327.001 05/30/08 |
| A | Release to Production | C.A. | 5327.001 03/26/08 |

TOLERANCES:
DIMENSIONS ARE IN INCHES
TWO PLACE (.XX) ± .03
THREE PLACE (.XXX) ± .015
ANGLES ± 1°
UNLESS OTHERWISE SPECIFIED

MATERIAL:

FINISH:

SCALE: NONE
DRAWN BY: CHAD ABELL
CHECKED BY: CHAD ABELL
DATE: 08/24/07
ECN. NO.: 5327.001

RAYNOR

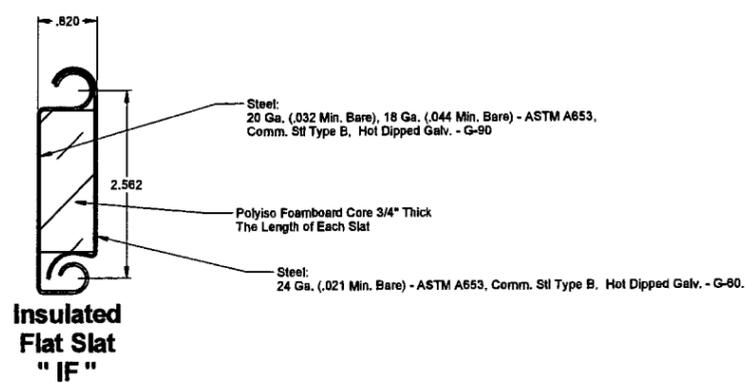
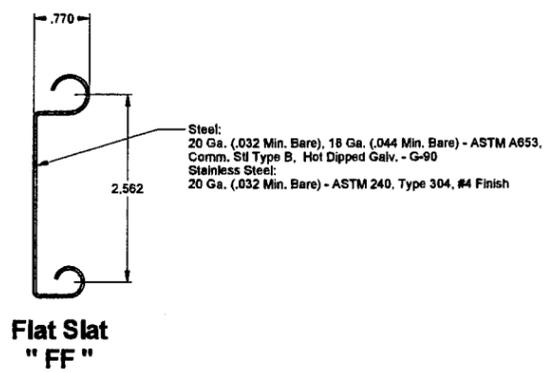
1101 EAST RIVER ROAD
DIXON, IL 61021

TITLE: Specifications, Window Doors
For Florida Dade County
Approvals Up To 16' Wide

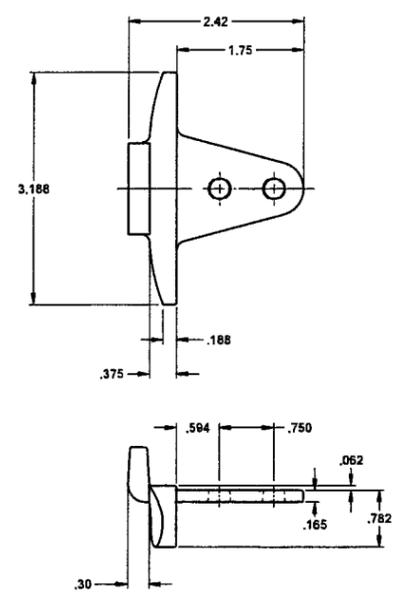
NO. P-1942

SHEET
1 OF 4

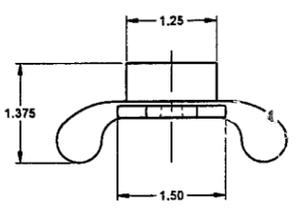
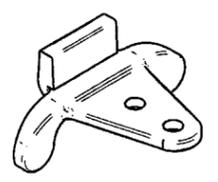
REV
B



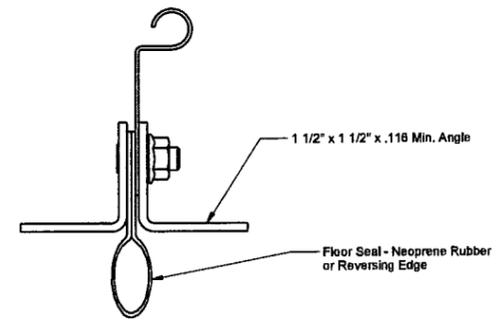
Flat Slat and Insulated Flat Slat Profiles



Malleable Cast Iron Endlock/Windlock



Bottom Bar Standard Assembly



General Specifications

- 1) DOORS shall be rolling steel model DURACOIL "STANDARD" (Standard Service Door) as manufactured by Raynor Garage Doors.
- 2) GUIDES - Structural steel angles, in accordance to ASTM A36 Steel, Min. 3/16" thick. Top of guide angles flared and provided with 4 removable curtain stops.
- 3) BRACKETS - Steel plates, in accordance to ASTM A36 Steel, Min. 3/16" thick, bolted to guides for mounting curtain and barrel assembly. Drive side bracket shall be fitted with a sealed ball bearing for long life.
- 4) BARREL - Structural steel pipe, Minimum 4 1/2" O.D. x .120" wall thickness and designed to limit maximum deflection, under load, to .03" per foot of span.
- 5) SPRING COUNTERBALANCE - The curtain shall be counterbalanced by means of oil tempered, helical torsion springs, grease-packed and mounted on a single continuous steel torsion shaft. Springs shall be compression spring design to facilitate any counterbalance maintenance. Cast iron spring anchors shall transfer full spring loading to the barrel.
- 6) HOOD - Shall be 24 ga. Commercial quality hot-dipped galvanized steel. Hood to have rolled edges to provide rigidity.
- 7) GUIDE HARDWARE - All bolts and washers shall be galvanized steel or stainless steel with a minimum bolt tensile strength of 60 K.S.I.
- 8) ENDLOCK/WINDLOCKS - Shall be cast malleable iron, in accordance to ASTM A47 - GRADE 32510 with electroplating in accordance to ASTM B633, clear chromate, Min. .0007 zinc coating thickness.
- 9) CURTAIN FLAT SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel per ASTM A653 or stainless steel per ASTM 240. Malleable endlock/windlocks fastened to alternate slats with 2 rivets per lock, eliminates lateral movement and prevent slats from wearing at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with 2 steel angles, Min. 1 1/2" x 1 1/2" x .116".
- 10) CURTAIN INSULATED SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel per ASTM A653. Each slat shall have a 3/4" thick polyiso foamboard core placed within the full length of the slat. Backing cover rollformed from 24 ga. commercial quality hot dipped galvanized (G-60) steel per ASTM A653. Malleable endlock/windlocks fastened to alternate slats with 2 rivets per lock, eliminates lateral movement and prevent slats from wearing at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with 2 steel angles, Min. 2" x 2" x .130".

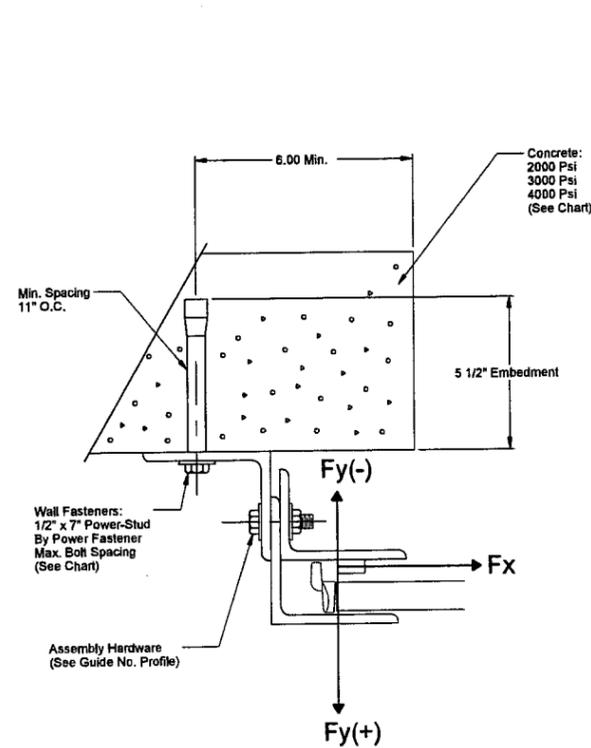
Approved as complying with the Florida Building Code
 Date: 11/13/08
 NOA#: 08-0709-08
 Miami-Dade Product Control
 Division
 By: *M. Thakur*

Chad Abell
 10-22-08

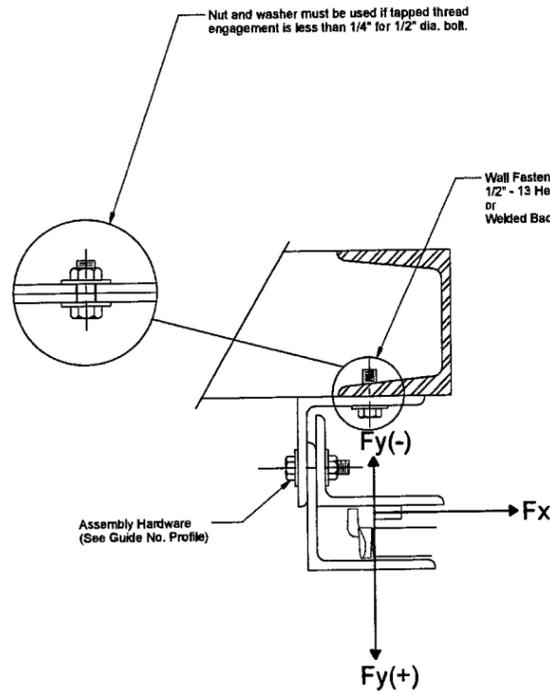
| | | | |
|--|-----------|--|--|
| TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (XX) ± .03 THREE PLACE (XXX) ± .015 ANGLES ± 1" UNLESS OTHERWISE SPECIFIED | MATERIAL: | SCALE: NONE | TITLE: Specifications, Windload Doors For Florida Dade County Approvals Up To 16' Wide |
| | FINISH: | DRAWN BY: CHAD ABELL CHECKED BY: CHAD ABELL DATE: 08/24/07 ECN. NO.: 5327.001 | |
| | | RAYNOR 1101 EAST RIVER ROAD DIXON, IL 61021 | NO. P-1942 |
| | | | SHEET 2 |
| | | | REV |

Notes:

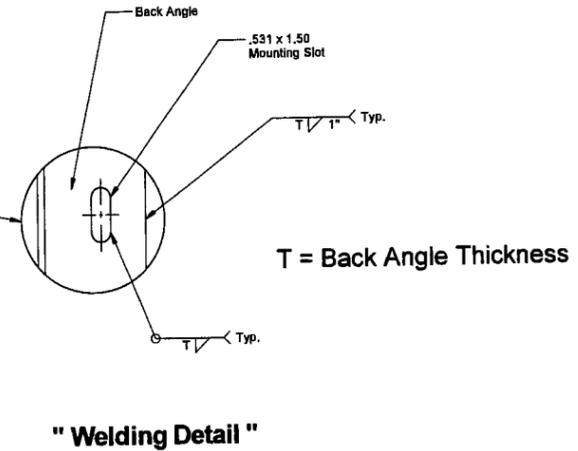
1. Building Designer Note: Structure must be designed to support the forces of "Fx" and "Fy" shown in chart
2. Fx and Fy are horizontal and vertical components of the reaction, resulting from windloads on the rolling steel door. The existing structure shall be capable of resisting Fx and Fy forces shown.



**Masonry Jamb - " Z " Mtd. (Shown)
or
Steel Jamb - "Z" Mtd.**



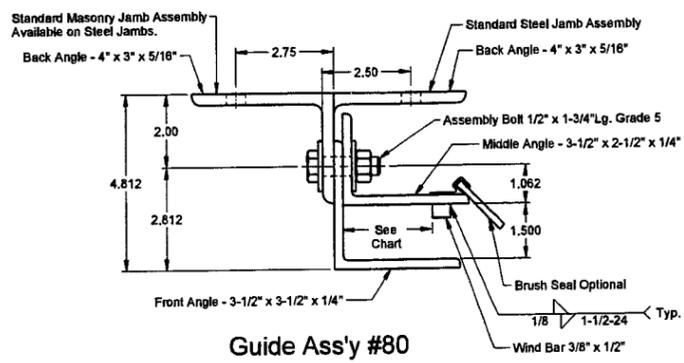
Steel Jamb - " E " Mtd.



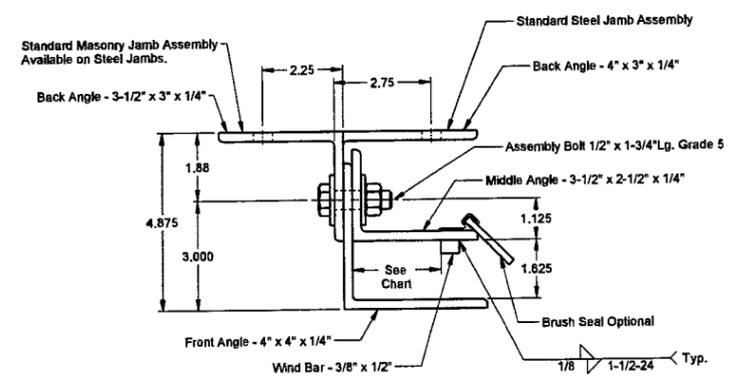
Approved as complying with the Florida Building Code
 Date 11/13/08
 NOAH 02-0709-08
 Miami Dade Product Control
 Division
 By *M. Hart*

Chad Abell
10-22-08

| | | | | | | |
|--|-----------|------------------------|--|---|-----|--|
| TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (XX) ±.03 THREE PLACE (XXX) ±.015 ANGLES ± 1" UNLESS OTHERWISE SPECIFIED | MATERIAL: | SCALE: NONE | TITLE: Specifications, Windload Doors For Florida Dade County Approvals Up To 16' Wide NO. P-1942 | SHEET | REV | |
| | FINISH: | DRAWN BY: CHAD ABELL | | 1101 EAST RIVER ROAD DAVON, L. 61021 | 3 | |
| | | CHECKED BY: CHAD ABELL | | DATE: 08/24/07 | | |
| | | | | ECN. NO.: 5327.001 | | |



Guide Ass'y #80



Guide Ass'y #9

11/13/08
 23-0709.08
 Division
 By *M. Thakur*

| DuraCoil - Standard | | | | | | | | | | | | | |
|------------------------------|-----------|-------------|-----------------|-------------|-----------------|-------|-------------------|-------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Door Opening Width Including | Slat Type | Steel Gauge | Guide Ass'y No. | Slat Length | Design Load PSF | Slip | Wind Bar Location | Bolt Spacing Steel Jamb | Bolt Spacing Masonry Jamb 2000 PSI | Bolt Spacing Masonry Jamb 3000 PSI | Bolt Spacing Masonry Jamb 4000 PSI | Guide Load F _x Lbs./Ft. | Guide Load F _y Lbs./Ft. |
| 16' | FF | 20 or 18 | 80 | D.R. - 3.00 | 65 | .968 | 2.093 | 15" | 12" | 13" | 14" | 1694 | 520 |
| 16' | IF | 20 or 18 | 9 | D.R. - 3.25 | 65 | 1.375 | 2.625 | 24" | 15" | 17" | 19" | 856 | 520 |

Notes:
 D.R. = Design Reference
 N/A = Not Applicable

[Signature]
 10-22-08

| | | | | | | |
|---|-----------|------------------------|--|--|---------|-----|
| TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (XX) ±.03 THREE PLACE (XXX) ±.015 ANGLES ±1" UNLESS OTHERWISE SPECIFIED | MATERIAL: | SCALE: NONE | RAYNOR 1101 EAST RIVER ROAD DIXON, IL 61021 | TITLE: Specifications, Windload Doors For Florida Dade County Approvals Up To 16' Wide | | |
| | FINISH: | DRAWN BY: CHAD ABELL | | NO. P-1942 | SHEET 4 | REV |
| | | CHECKED BY: CHAD ABELL | | | | |
| | | DATE: 08/24/07 | | | | |
| ECN. NO.: 5327.001 | | | | | | |