



MIAMI-DADE COUNTY
 PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

Raynor Garage Doors
1101 East River Road, P.O. Box 448
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 and accepted by Miami-Dade County RER-Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 Steel Roll-Up Door up to 16'-0" Wide

APPROVAL DOCUMENT: Drawing No. P-1942, titled "Specifications, Windload Doors For Florida Dade County Approvals Up To 16' Wide", sheet 1 through 4 of 4, dated 08/24/2007 with last revision C dated 11/25/2008, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E., 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 Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, city, state, model/series number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

LIMITATION: This NOA requires the manufacturer to do testing of all coils used to fabricate door slats. A minimum of 2 specimens shall be cut from each coil and tensile tested according to ASTM E-8 by a Miami-Dade County approved laboratory. Every 3 months, the manufacturer shall mail to this office a copy of the test reports. Only coils with average yield strength of 50,000 psi or more shall be used to make door slats.

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 renews NOA # 12-0517.07 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]
 11/07/2013

NOA No. 13-0829.13
 Expiration Date: November 13, 2018
 Approval Date: November 14, 2013
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. P-1942, titled "Specifications, Windload Doors For Florida Dade County Approvals Up To 16' Wide", sheet 1 through 4 of 4, dated 08/24/2007 with last revision C dated 11/25/2008, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E.

B. TESTS "Submitted under NOA # 12-0517.07"

1. Test report on Forced Entry Resistance Test per FBC, TAS 202-94 of a Duracoil Rolling Door", prepared by Architectural Testing, Inc., Test Report No. C1888.01-550-18, dated 09/12/2012, signed and sealed by Vinu J. Abraham, P.E.

"Submitted under NOA # 08-0709.08"

2. Test report on Uniform Static Air Pressure per FBC, TAS 202-94, Large Missile Impact Test per FBC, TAS 201-94 and Cyclic Wind Pressure Test per FBC, TAS 203-94 of Duracoil Rolling Doors", prepared by Hurricane Test Laboratories, Test Report No. G493-0202-08, dated 2/04/2008, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS "Submitted under NOA # 08-0709.08"

1. Structural calculations, prepared Wendler Engineering Services, Inc, dated 05/16/2008, signed and sealed by Richard A. Baumann P.E,

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS "Submitted under NOA # 08-0709.08"

1. Test report on Tensile Test per ASTM E8 of 0.049 steel GA, prepared by Certified Testing Laboratories, Test Report # 0313Q, dated 04/25/2008, signed by Chris Reed.
2. Test report on Self Ignition Temperature Test, per ASTM D1929 of AC FOAM II, prepared by Underwriters Laboratory Inc, Report # R25153, dated 03/07/2007, signed by Tom Lockhouse.
3. Atlas Roofing Corporation technical data on Flame Spread and Smoke Development per ASTM E84, dated 04/22/2008.

F. STATEMENTS

1. Statement letter of code conformance to 2010 FBC, issued by Wendler Engineering Services, Inc., dated 08/26/2013, signed and sealed by Richard A. Baumann, P.E.

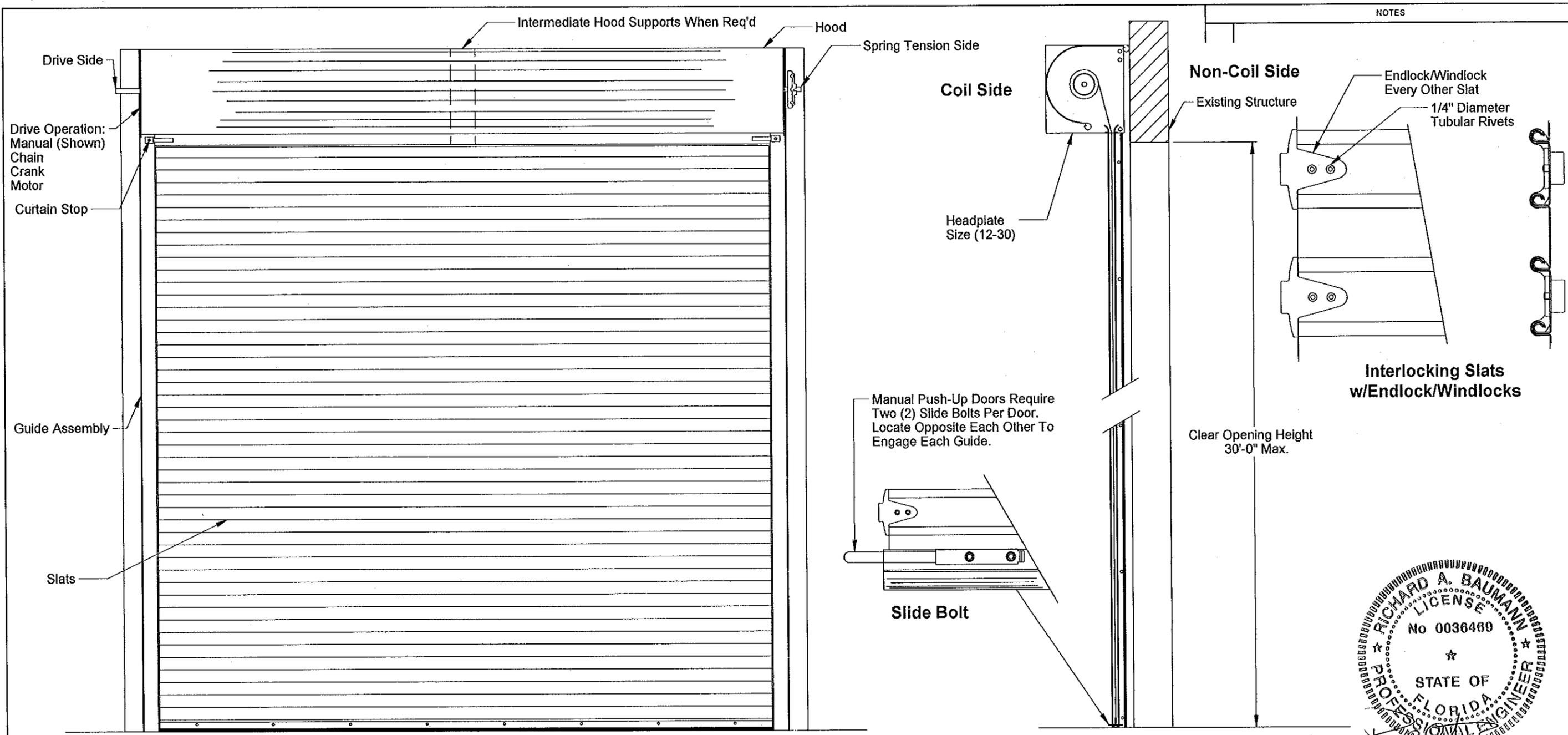
"Submitted under NOA # 08-0709.08"

2. No financial interest letter issued by Wendler Engineering Services, Inc., dated 05/19/2008, signed by Richard A. Baumann, P.E.


11/07/2013

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 13-0829.13

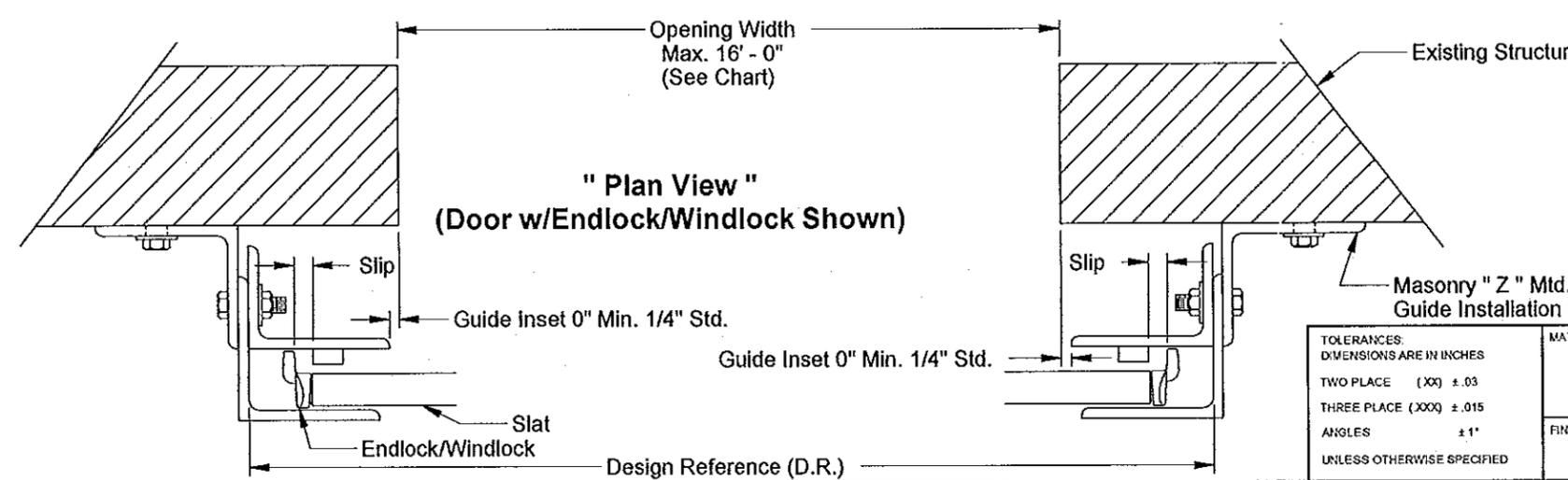
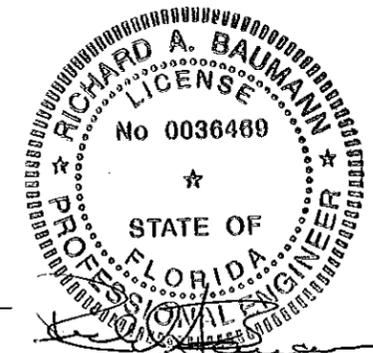
Expiration Date: November 13, 2018
Approval Date: November 14, 2013



NOTES

" 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

PRODUCT RENEWED as complying with the Florida Building Code
 Acceptance No 13-0829.13
 Expiration Date 11/13/2018
 By [Signature]
 Miami Dade Product Control

REV.	DESCRIPTION	ECN NO.	DATE
C	Added Note.	5569.001	11/25/08
B	Added note 11, (1) was "Steel Gauge" (2) Fx load was 1694 B.B. (3) Fx load was 856.	5327.001	05/30/08
A	Release to Production	C.A. 5327.001	03/26/08

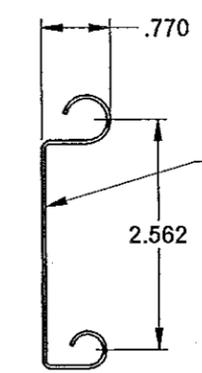
TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (XX) ±.03 THREE PLACE (XXX) ±.015 ANGLES ±1' UNLESS OTHERWISE SPECIFIED	MATERIAL:	SCALE: NONE DRAWN BY: CHAD ABELL CHECKED BY: CHAD ABELL DATE: 08/24/07 ECN NO.: 5327.001
---	-----------	--

RAYNOR
 1101 EAST RIVER ROAD
 DIXON, IL 61021

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

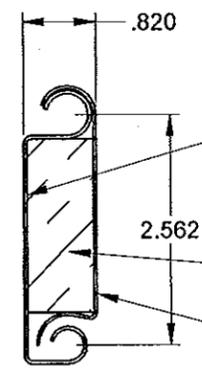
NO. P-1942

SHEET 1 OF 4	REV C
--------------	-------



Flat Slat
" FF "

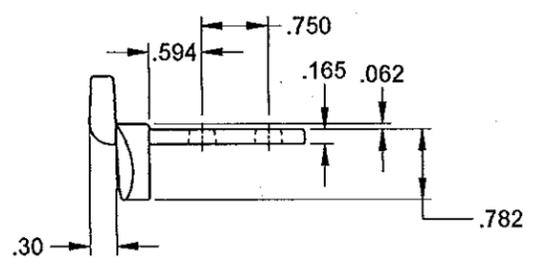
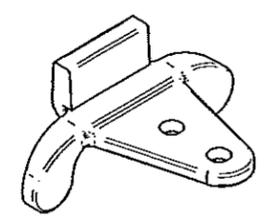
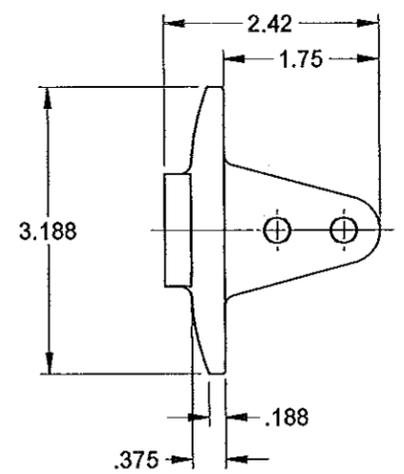
Steel:
20 Ga. (.032 Min. Bare), 18 Ga. (.044 Min. Bare) - ASTM A653,
Comm. Stl Type B, Hot Dipped Galv. - G-90
Stainless Steel:
20 Ga. (.032 Min. Bare) - ASTM 240, Type 304, #4 Finish



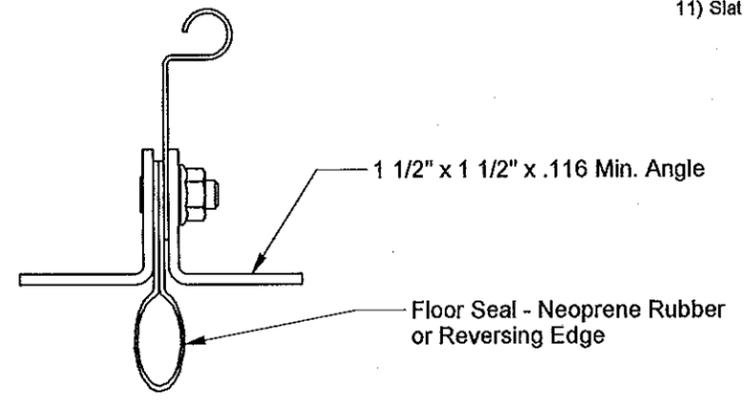
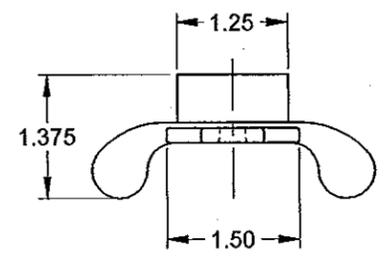
Insulated
Flat Slat
" IF "

Steel:
20 Ga. (.032 Min. Bare), 18 Ga. (.044 Min. Bare) - ASTM A653,
Comm. Stl Type B, Hot Dipped Galv. - G-90
Polyiso Foamboard Core 3/4" Thick
The Length of Each Slat
Steel:
24 Ga. (.021 Min. Bare) - ASTM A653, Comm. Stl Type B,
Hot Dipped Galv. - G-60.

Flat Slat and Insulated Flat Slat Profiles



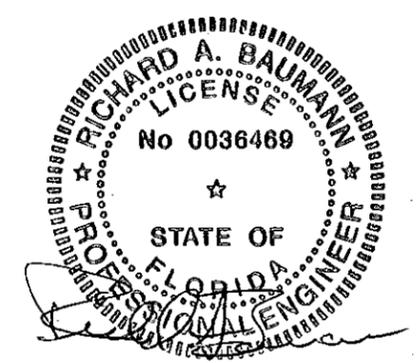
Malleable Cast Iron Endlock/Windlock



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".
- 11) Slat material to have a min. yield strength of 50,000 psi.

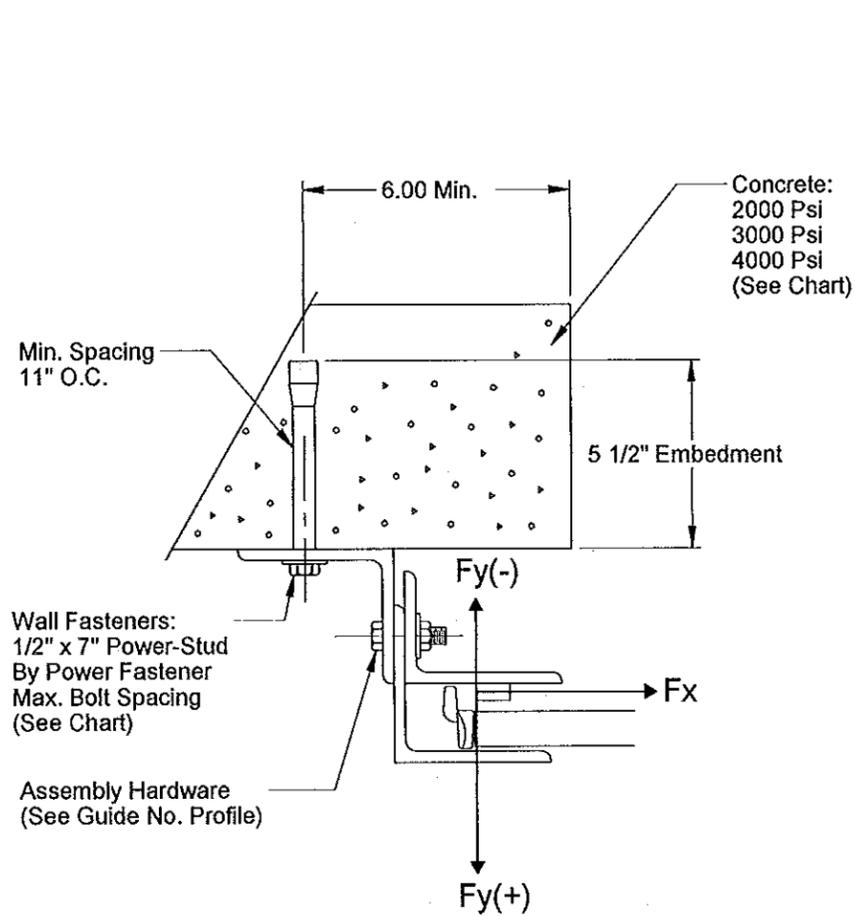


PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-0829.13
Expiration Date 11/13/2016
By *[Signature]*
Miami/Dade Product Control

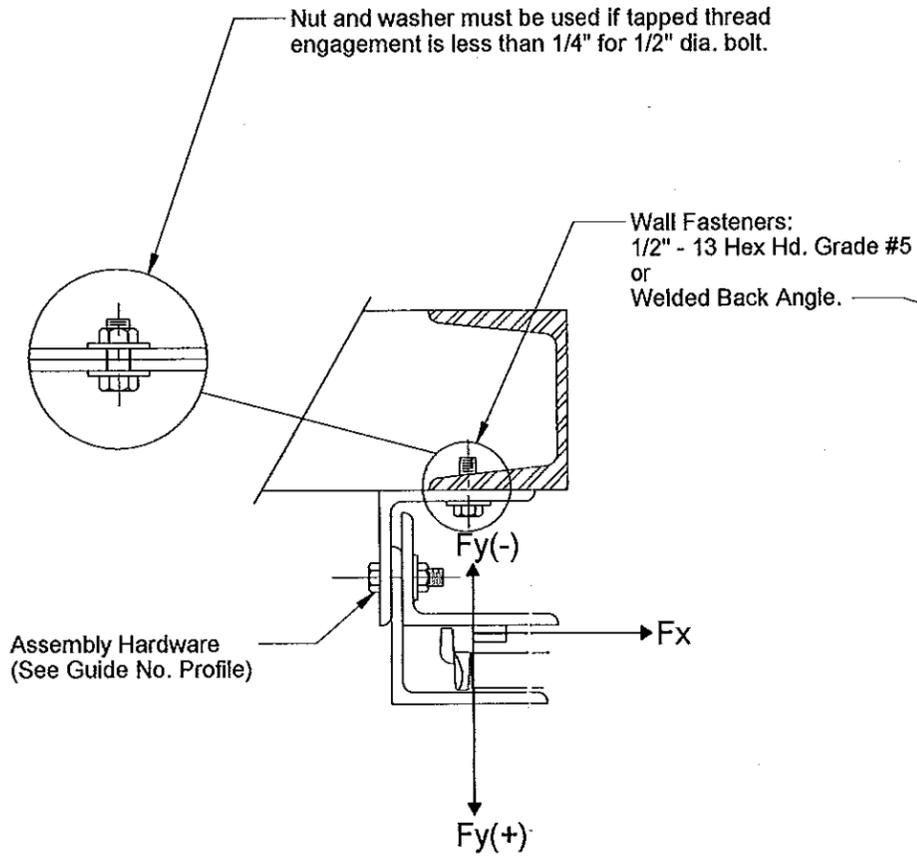
TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (.XX) ± .03 THREE PLACE (.XXX) ± .015 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED	MATERIAL:	SCALE: NONE	 1101 EAST RIVER ROAD DIXON, IL 61021	TITLE: Specifications, Windload Doors For Florida Dade County Approvals Up To 16' Wide				
	FINISH:	DRAWN BY: CHAD ABELL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

Notes:

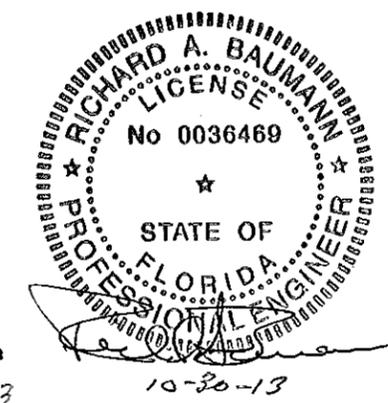
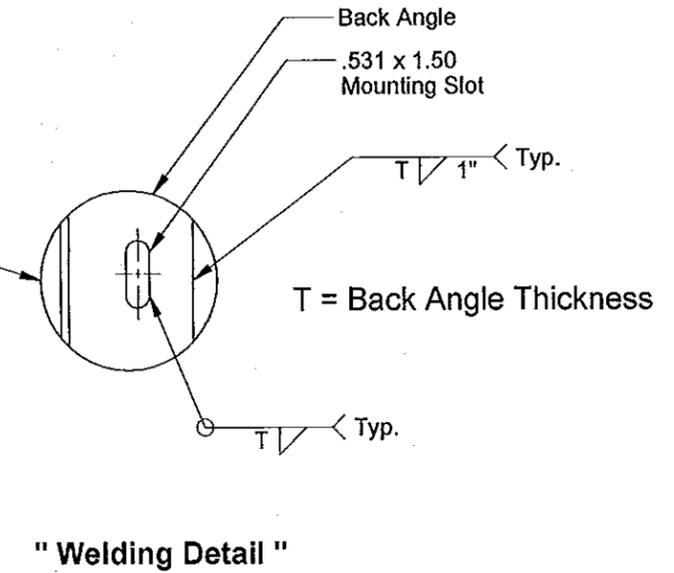
1. Building Designer Note: Structure must be designed to support the forces of "Fx" and "Fy" shown in chart
2. Fx and Fy are horizontal and vertical components of the reaction, resulting from windloads on the rolling steel door. The existing structure shall be capable of resisting Fx and Fy forces shown.



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

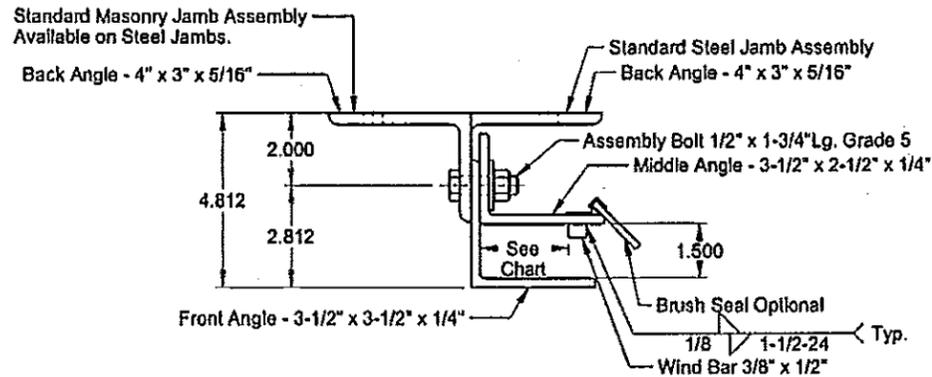


Steel Jamb - "E" Mtd.

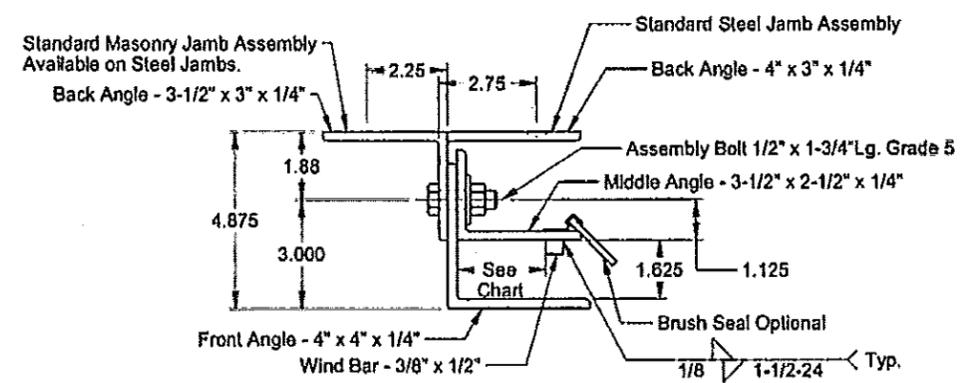


PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-0829.13
Expiration Date 11/13/2018
By *[Signature]*
Miami/Dade Product Control

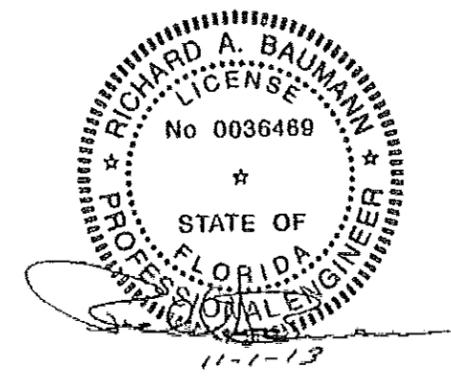
TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (XX) ± .03 THREE PLACE (XXX) ± .015 ANGLES ± 1' UNLESS OTHERWISE SPECIFIED	MATERIAL:	SCALE: NONE	 1101 EAST RIVER ROAD DIXON, IL 61021	TITLE: Specifications, Windload Doors For Florida Dade County Approvals Up To 16' Wide		
	FINISH:	DRAWN BY: CHAD ABELL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



Guide Ass'y #80
 © Note: Minimum Headplate Size of 18"



Guide Ass'y #9



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 13-0829.13
 Expiration Date 11/13/2018
 By *[Signature]*
 Miami Dade Product Control

DuraCoil - Standard														
Rev.	Door Opening Width Including	Slat Type	(B1) Slat 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 Fx Lbs./Ft.	Guide Load Fy Lbs./Ft.
B2	16'	FF	20 or 18	80	D.R. - 3.00	65	.968	2.093	15"	12"	13"	14"	1614	520
B3	16'	IF	20 or 18	9	D.R. - 3.25	65	1.375	2.625	24"	15"	17"	19"	759	520

Notes:
 D.R. = Design Reference

TOLERANCES DIMENSIONS ARE IN INCHES TWO PLACE (.XX) ± .02 THREE PLACE (.XXX) ± .015 ANGLES .1° UNLESS OTHERWISE SPECIFIED	MATERIAL	SCALE NONE	1101 EAST BAY ROAD DEER LAKES, FL 33429	SPECIFICATIONS, Wind'oadDoors For Florida Dade County Approvals Up To 16' Wide	
		DRAWN BY CHAD ABELL		NO. P-1942	SHEET 4
		CHECKED BY CHAD ABELL		REV C	
		DATE 05/24/07 ECH NO 5327.001			