



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

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](http://www.miamidade.gov/economy)

**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 and FireCoil Series UF/FF/IF Steel Roll-up Doors up to 8ft.-0in. Wide**

**APPROVAL DOCUMENT:** Drawing No. **P-1286 Rev E**, titled "Spec, Windload Series UF/FF/IF", sheets 1 through 4 of 4, dated 09/10/2013 and last revised on 06/19/19, prepared by the manufacturer, signed and sealed by Scott A. Brown, P.E., S.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and the 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 sidetrack, bottom angle, or inner surface of a panel.

**LIMITATIONS:** 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 48,300 psi or more shall be used to make door slats.

See sheet **3** for typical jamb anchors, OC spacing and substrates.

**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 # 19-0429.03** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



NOA-No. 20-1104.18  
Expiration Date: 08/21/2024  
Approval Date: 02/18/2021

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS “Submitted under NOA # 14-0401.05”**

1. Drawing No. **P-1286**, titled “Spec, Windload Series UF/FF/IF”, sheet 1 through 4 of 4, dated 09/10/2013, with revision **D** dated 05/19/2014, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E.

**B. TESTS “Submitted under NOA # 14-0401.05”**

1. Addendum letter to Test Report No. **D4244.01-602-18**, dated 05/19/2014, signed and sealed by Shawn G. Collins, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading 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  
4) Forced Entry Resistance Test per FBC, TAS 202-94  
5) Tensile Test per ASTM E 8,  
along with marked-up drawings and installation diagram of a Series FF, 8'-0" wide x 7'-0" high, 18 ga slat rolling steel garage door, prepared by Architectural Testing, Inc., Test Report No. **D4244.01-602-18**, dated 03/11/2014, with revision 1 dated 03/17/2014, signed and sealed by Shawn G. Collins, P.E.

**C. CALCULATIONS “Submitted under NOA # 14-0401.05”**

1. Anchorage calculations prepared by Richard A. Baumann P.E., dated 05/28/2014, 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 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.
2. 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 the **5<sup>th</sup> edition (2014) FBC** and of no financial interest issued by Wendler Engineering Services, Inc., dated 09/09/2015, signed and sealed by Richard A. Baumann, P.E. “Submitted under NOA # 14-0401.05”
2. Statement letter of code conformance to **2010 FBC**, issued by Wendler Engineering Services, Inc., dated 03/25/2014, signed and sealed by Richard A. Baumann, P.E.
3. No financial interest letter issued by Wendler Engineering Services, Inc., dated 03/25/2014, signed by Richard A. Baumann, P.E.



Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA-No. 20-1104.18  
Expiration Date: 08/21/2024  
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**Raynor Garage Doors**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. EVIDENCE SUBMITTED UNDER NOA # 17-1026.13**

**A. DRAWINGS**

1. None.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to the **6<sup>th</sup> edition (2017) FBC** issued by Wendler Engineering Svc, Inc., dated 10/24/2017, signed and sealed by Richard A. Baumann, P.E.

**2. EVIDENCE SUBMITTED UNDER NOA # 19-0429.03**

**A. DRAWINGS**

1. Drawing No. **P-1286 Rev E**, titled “Spec, Windload Series UF/FF/IF”, sheets 1 through 4 of 4, dated 09/10/2013 and last revised on 06/19/19, prepared by the manufacturer, signed and sealed by Scott A. Brown, P.E., S.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of conformance to **FBC 6<sup>th</sup> Edition (2017)** and “no financial interest, dated June 19, 2019, issued by Wendler Engineering Services, Inc., signed and sealed by Scott A. Brown, P. E., S.E.
2. Statement letter of Successor Engineer adopting another Engineer’s work as his own per FLA 61G15.27.001, dated June 19, 2019, signed and sealed by Scott A. Brown, P. E., S.E.

**G. OTHERS**

1. This NOA **revises & renews NOA No. 17-1026.13**, expiring 08/21/2024.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA-No. 20-1104.18**  
**Expiration Date: 08/21/2024**  
**Approval Date: 02/18/2021**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. None.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

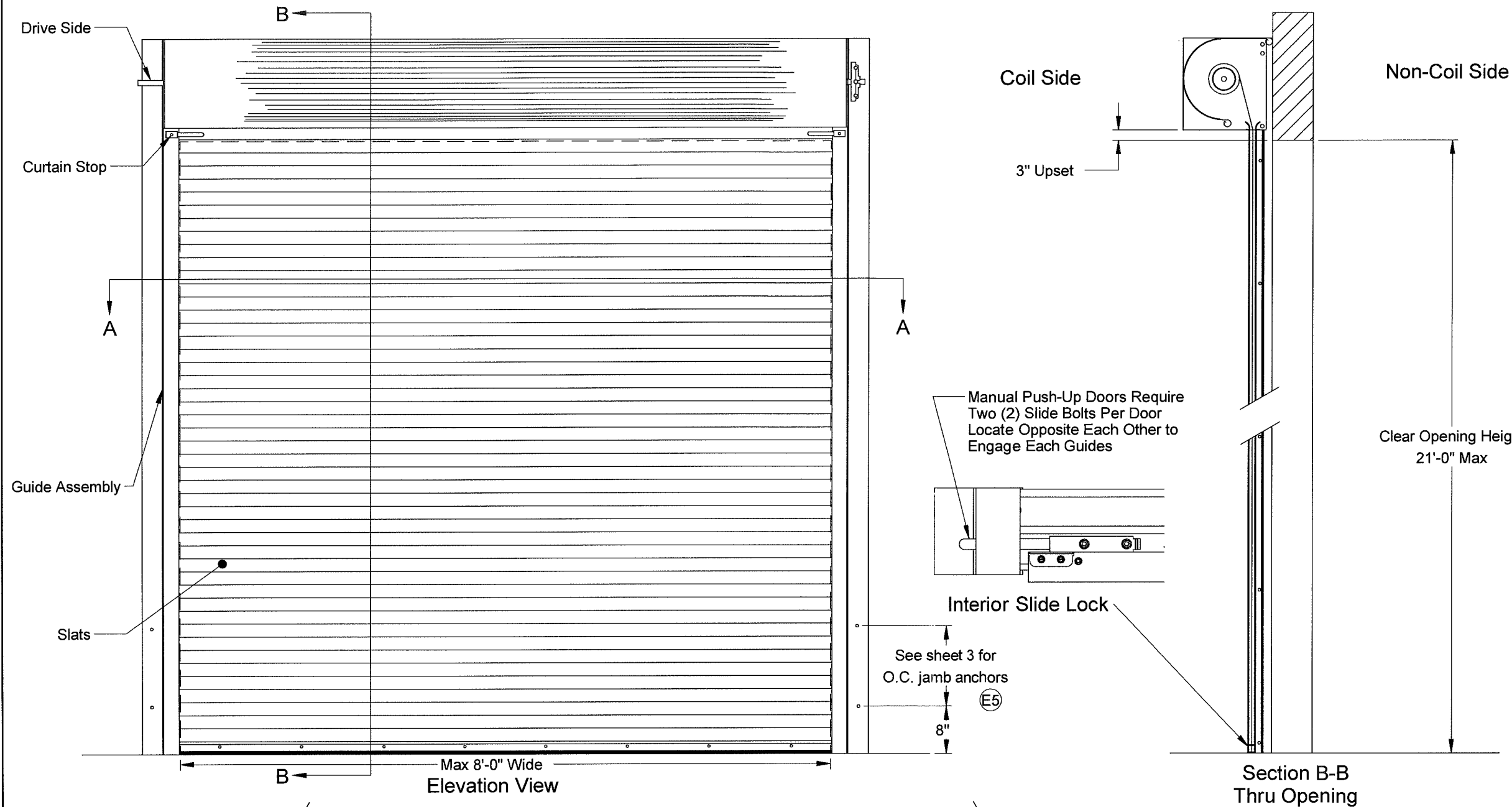
**F. STATEMENTS**

1. Statement letter of code conformance to **7<sup>th</sup> Edition (2020) FBC** and no financial interest, issued by Wendler Engineering Services, Inc., dated 09/30/2020, signed and sealed by Scott A. Brown, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA-No. 20-1104.18**  
**Expiration Date: 08/21/2024**  
**Approval Date: 02/18/2021**

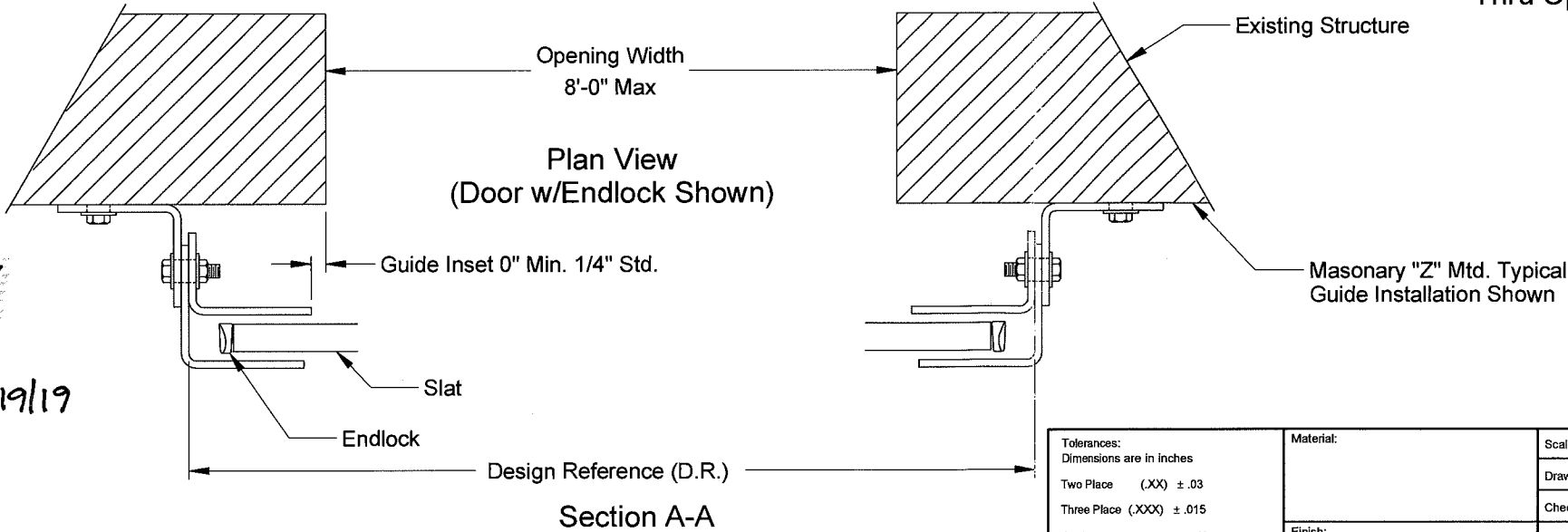


**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1104.18  
Expiration Date 08/21/2024  
By *[Signature]*  
Miami-Dade Product Control

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as complying with the Florida  
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Acceptance No. 19-0429.03  
Expiration Date AUG 21, 2024  
*[Signature]*  
Miami-Dade Product Control

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



SCOTT A. BROWN  
Professional Engineer  
No. 65940  
State of Florida  
6/19/19

Scott A. Brown, P.E. Lic. No. 65940  
Wendler Engineering Services, Inc.  
698 Timber Creek Road, Dixon, IL 61021  
FBPE CA Lic. No. 31544  
Structural Adequacy for Wind Load

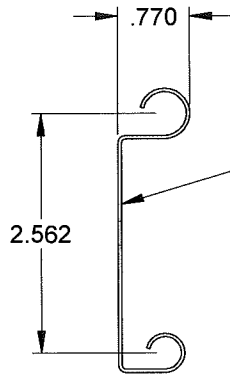
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E	1) Was 4-3/4" on sheet 3. 2) Was 7" on sheet 3. 3) Added fastener detail on sheet 3. 4) Added min. thickness note on steel "Z" mtd jamb on sheet 3. 5) Added note & dimension on sheet 1. 6) Added note on sheet 3.	8216.01	04/23/19
D	1) Updated Gen. Spec. 2 & 5(sheet 2) 2) Added 8" from Bottom to wall fastener notes (sheet 3). 3) Changed bolt spacing for Steel "Z" Mtd, was 18" O.C. (sheet 3). 4) Changed Angles from .180 to 3/16" (sheet 4)	6465.02	05/19/14
C	Min. Yield Strength was 50,000 PSI	6465.01	03/06/14
Rev.	Description	ECO	Date

Tolerances: Dimensions are in inches Two Place (XX) ± .03 Three Place (XXX) ± .015 Angles ± 1° Unless otherwise specified	Material:  Finish:  Scale: None Drawn by: M. Reutzel Checked by: J. Bonnell Date: 09/10/13 ECO: 4696
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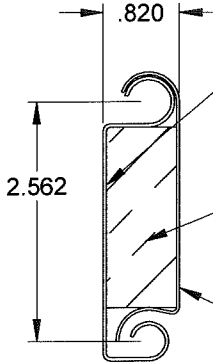
**RAYNOR**  
1101 East River Road  
Dixon, IL 61021

Title: Spec, Wind Load Series UF/FF/IF		No.	P-1286	Sheet 1 of 4	Rev E
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Steel:  
18 Ga. (.044 Min. Bare) - ASTM A653,  
Comm. Stl Type B, Hot Dipped Galv. - G-90

Flat Slat  
"UF/FF"



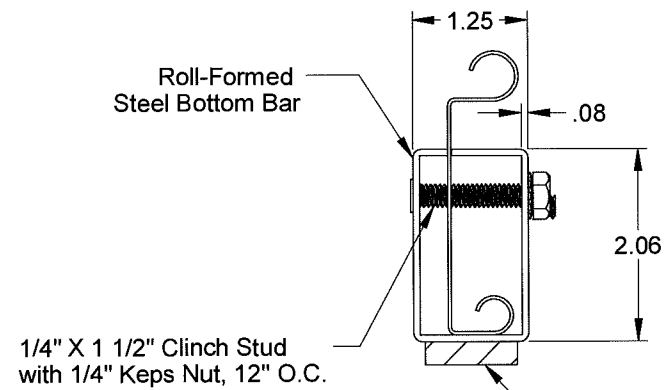
Steel:  
18 Ga. (.044 Min. Bare) - ASTM A-653,  
Comm. Stl Type B, Hot Dipped Galv. - G-90

Polyiso Foamboard Core 3/4" Thick  
The Length of Each Slat

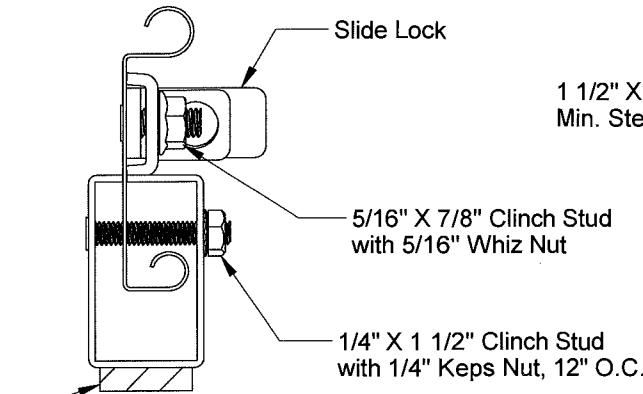
Steel:  
24 Ga. (.021 Min. Bare) - ASTM A-653, Comm. Stl Type B,  
Hot Dipped Galv. - G-60.

Insulated  
Flat Slat  
"IF"

Flat Slat and Insulated Flat Slat Profiles

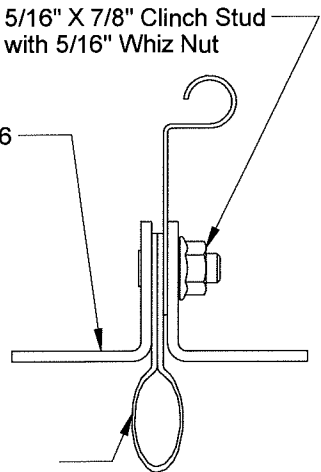


Tubular Bottom Bar Detail

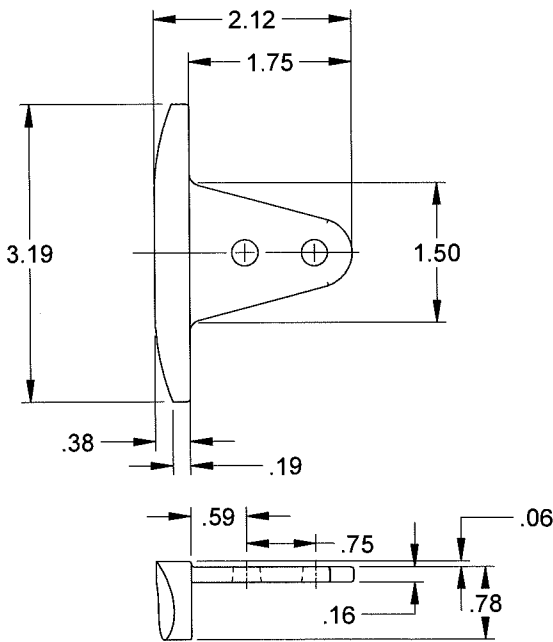


Tubular Bottom Bar Detail  
w/Interior Slide Bolt

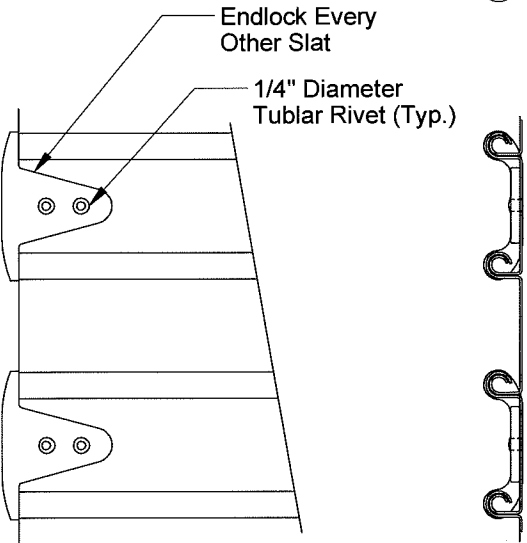
1 1/2" X 1 1/2" X .116  
Min. Steel Angle



Angle Bottom Bar  
Detail



Malleable Cast Iron Endlock



Interlocking Slats w/Endlocks

General Specifications

- DOORS shall be rolling steel model DURACOIL (Standard Service Door) or FIRECOIL (Fire Door) as manufactured by Raynor Garage Doors.
- GUIDES - Roll-formed steel angle per ASTM A1011, Minimum 3/16" thick provided with 4 removable curtain stops. Minimum yield strength of 50,000 PSI.
- 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.
- 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.
- 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. This is not part of the approval. It must be certified by an independent agency.
- HOOD - Shall be 24 ga. Commercial quality hot-dipped galvanized steel. Hood to have rolled edges to provide rigidity.
- GUIDE HARDWARE - All bolts and washers shall be galvanized steel or stainless steel with a minimum bolt tensile strength of 60 K.S.I.
- ENDLOCKS - 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.
- CURTAIN FLAT SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel per ASTM A653. Malleable endlocks fastened to alternate slats with 2 rivets per endlock, eliminates lateral movement and prevent slats from wearing at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with Steel 1 1/4" X 2 1/16" X .078 tubular bottom bar or with (2) Steel angle, min. 1 1/2" X 1 1/2" X .116.
- CURTAIN INSULATED SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel per ASTM A653. Each insulated standard service door 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 endlocks fastened to alternate slats with 2 rivets per endlock, eliminates lateral movement and prevent slats from wearing at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with Steel 1 1/4" X 2 1/16" X .078 Tubular Bottom Bar or with (2) Steel angle, min. 1 1/2" X 1 1/2" X .116.

11) Steel slat material to have a min. yield strength of 48,379 psi.

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NOA-No. 20-1104.18

Expiration Date 08/21/2024


By *[Signature]*  
Miami-Dade Product Control

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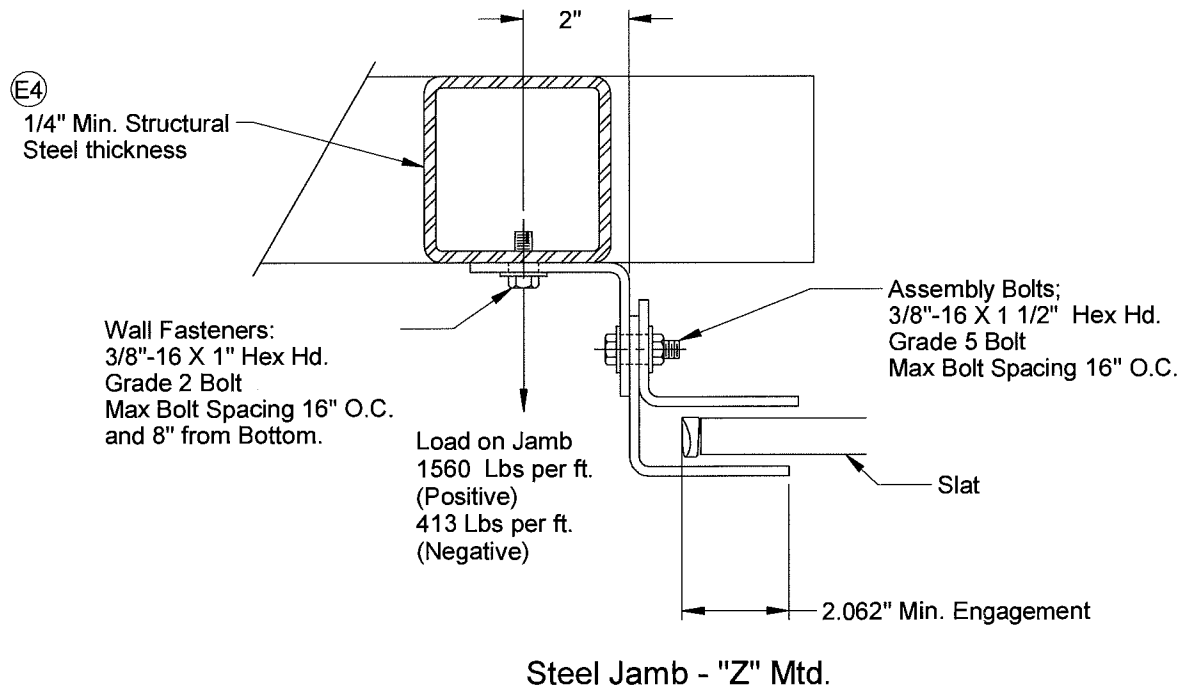
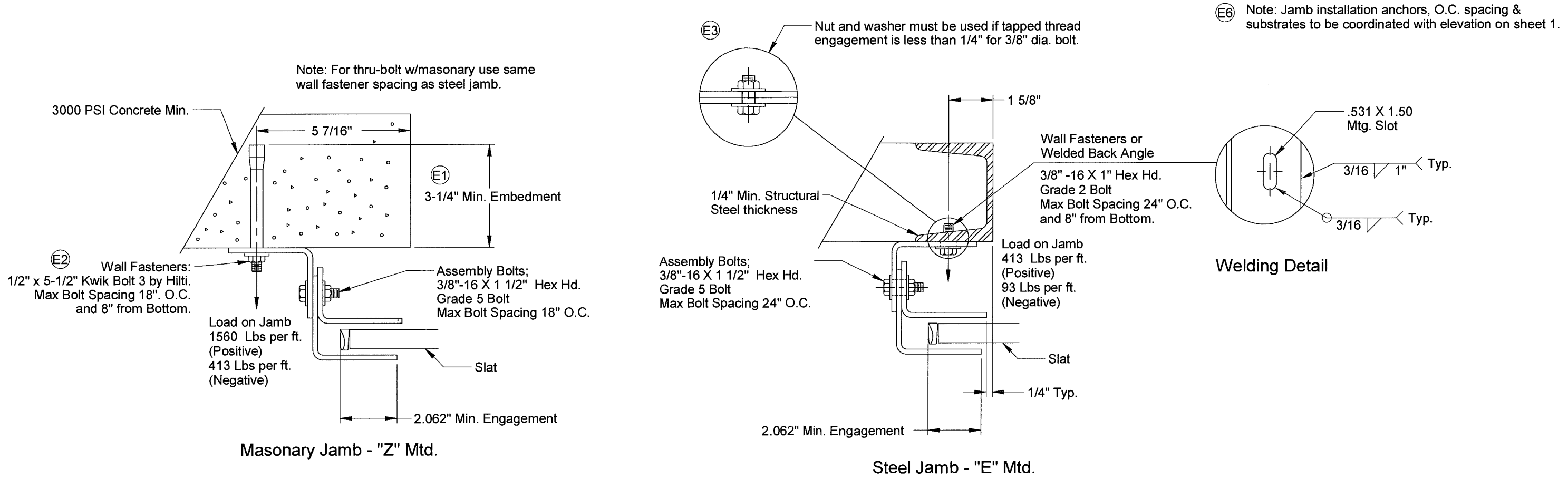
*[Signature]*  
Miami-Dade Product Control

Scott A. Brown, P.E. Lic. No. 65940  
Wendler Engineering Services, Inc.  
698 Timber Creek Road, Dixon, IL 61021  
FBPE CA Lic. No. 31544  
Structural Adequacy for Wind Load  
6/19/19

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

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: Spec, Wind Load Series UF/FF/IF		
		Drawn by: M. Reutzel		No. P-1286	Sheet 2	Rev E
		Checked by: J. Bonnell				
	Finish:	Date: 09/10/13				
		ECO: 4696				





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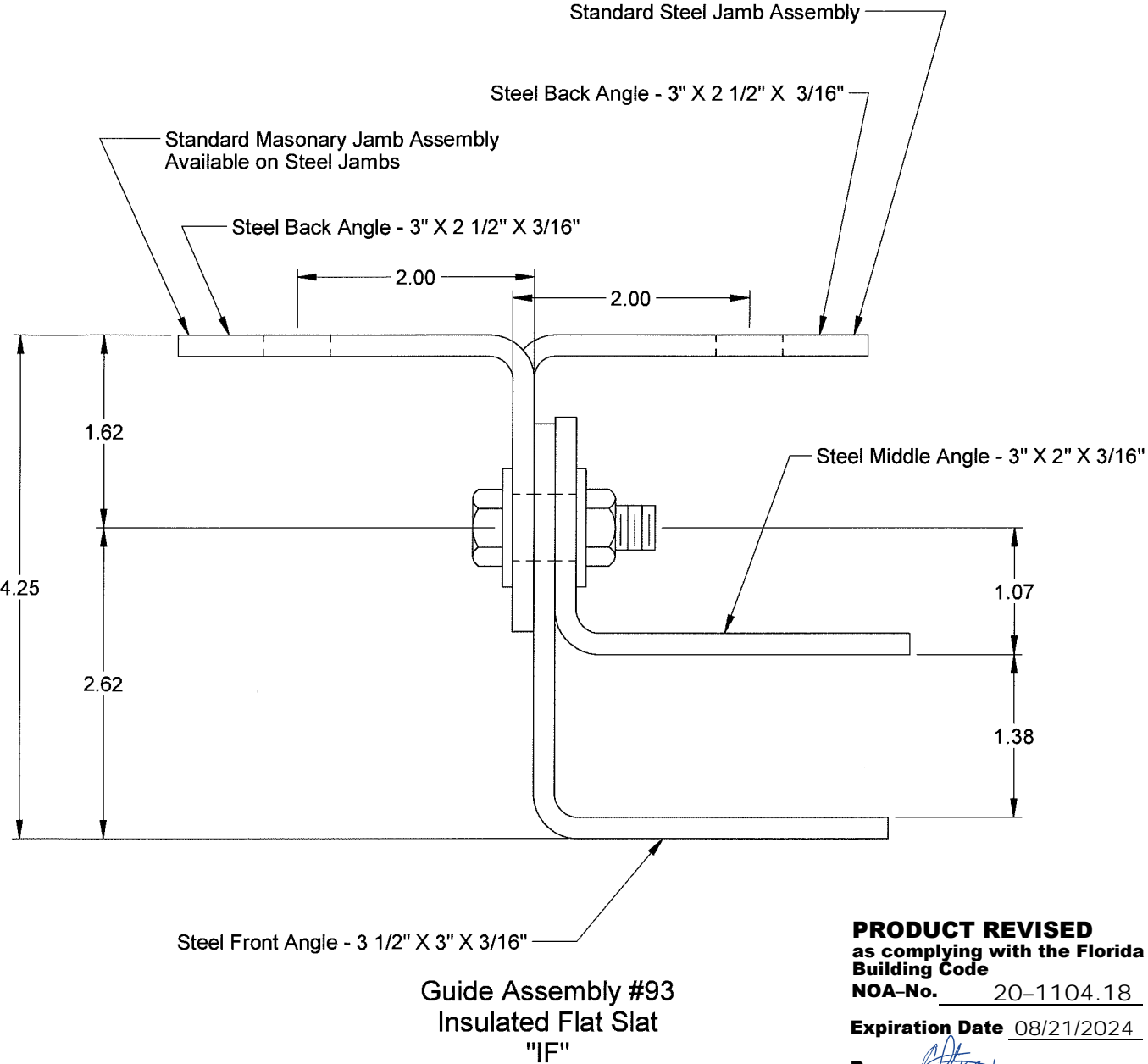
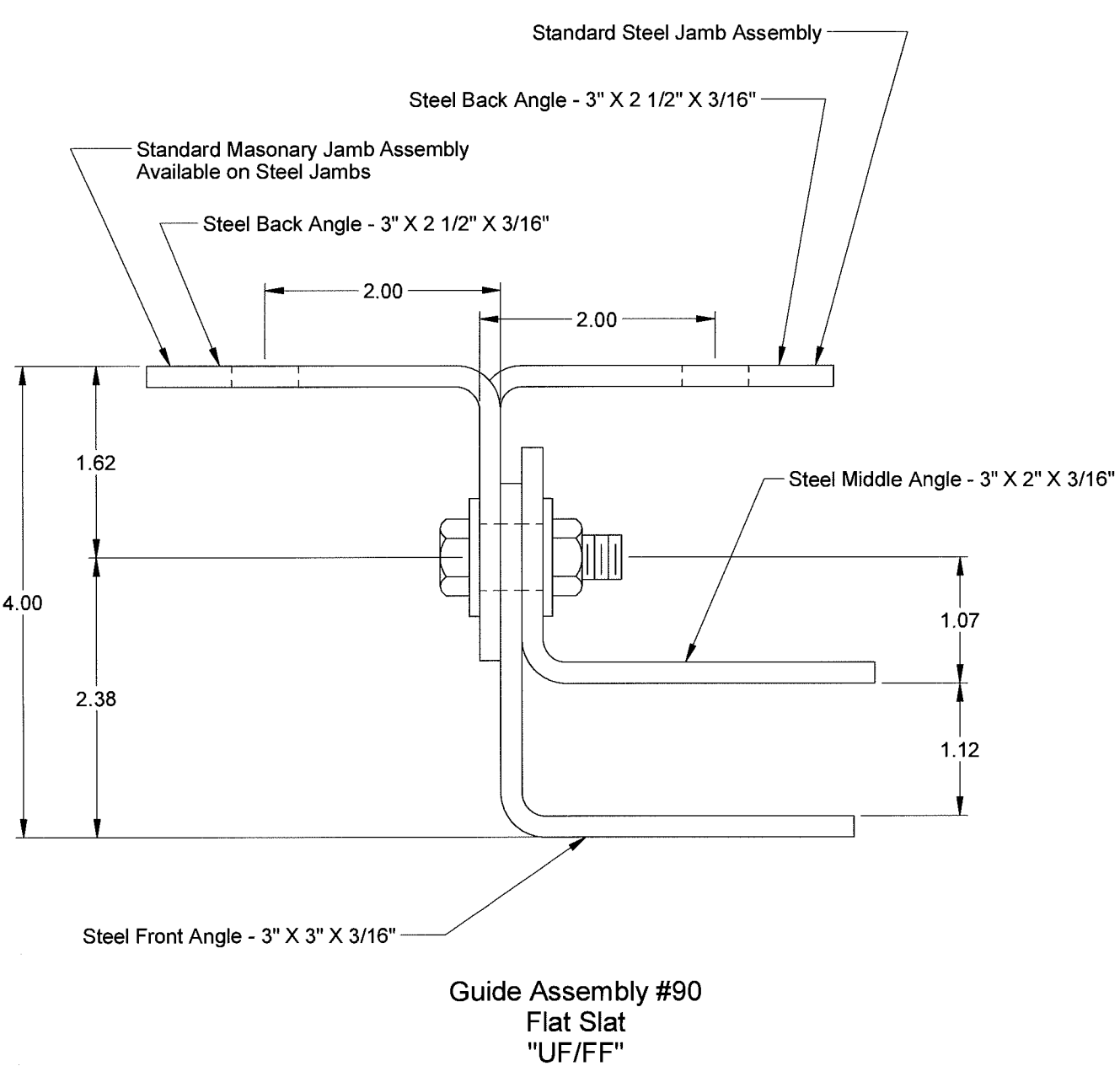
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6/19/19

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		Drawn by: M. Reutzel				
		Checked by: J. Bonnell				
		Finish: Date: 09/10/13 ECO: 4696				




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	Finish:	ECO: 4696		No. P-1286	Sheet 4
					Rev E