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 D dated 11/25/2008, prepared by Raynor Garage Doors, signed and sealed by Scott A. Brown, P.E. on 08/16/2018, 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 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 and revises NOA # 17-1026.10 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. 18-0828.05
Expiration Date: November 13, 2023
Approval Date: December 6, 2018
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA’s

A. DRAWINGS “Submitted under NOA # 13-0829.13”
   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 11/25/08, prepared by the manufacturer, signed & sealed by Richard A. Baumann, P.E.

B. TESTS “Submitted under NOA # 12-0517.07”

   “Submitted under NOA # 08-0709.08”

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.

F. STATEMENTS “Submitted under NOA # 15-0714.07”

   “Submitted under NOA # 13-0829.13”
   2. 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”
   3. No financial interest letter issued by Wendler Engineering Services, Inc., dated 05/19/2008, signed by Richard A. Baumann, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 18-0828.05
Expiration Date: November 13, 2023
Approval Date: December 6, 2018

E - 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 17-1026.10

A. DRAWINGS
   1. None.

B. TESTS
   1. None.

C. CALCULATIONS
   1. None.

D. QUALITY ASSURANCE
   1. Miami-Dade County Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS
   1. None.

F. STATEMENTS

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 18-0828.05
Expiration Date: November 13, 2023
Approval Date: December 6, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New evidence submitted

A. DRAWINGS

B. TESTS
   1. None.

C. CALCULATIONS
   1. Structural calculations prepared Wendler Engineering Services, Inc, dated 08/16/2018, signed and sealed by Scott A. Brown, P.E.

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

E. MATERIAL CERTIFICATIONS
   1. None.

F. STATEMENTS
   2. Statement letter of no financial interest issued by Wendler Engineering Services, Inc., dated 08/07/2018, signed by Scott A. Brown, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 18-0828.05
Expiration Date: November 13, 2023
Approval Date: December 6, 2018
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 18-0828.05
Expiration Date 11/13/2023
By 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 +92 PSF

Interlocking Slats
w/Endlock/Windlock

Scott A. Brown P.E.
F.P.E. #05340
628 Timber Creek Road
Oxon, Illinois 61021

Raynor

NO. P-1942
1 of 4
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 1 removable curtain stop.

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 1/2" wall thickness and designed to limit maximum deflection, under test, to 0.03" 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 butt tensile strength of 80 K.S.I.

8) ENDLOCK/WINDLOCKS - Shall be cast malleable iron, in accordance to ASTM A47, GRADE 355 (10) with electropolishing in accordance to ASTM B633, clear oxides, Min. 0.007 zinc coating thickness.

9) CURTAIN FLAT SLAT - Interlocking slats reformulated from commercial quality hot-dipped galvanized (G60) steel per ASTM A653 or stainless steel per ASTM 420. Malleable endlocks/windlocks fastened to alternate slats with 2 rivets per lock, eliminate lateral movement and prevent slats from warping 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 reformulated from commercial quality hot-dipped galvanized (G60) steel per ASTM A653. Each slat shall have a 3/4" thick polyurethane foamboard core placed within the full length of the slat. Buckling cover material from 24 ga, commercial quality hot-dipped galvanized (G60) steel per ASTM A653. Malleable endlocks/windlocks fastened to alternate slats with 2 rivets per lock, eliminates lateral movement and prevent slats from warping at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with 2 steel angles, Min. 2" x 2" x .120".

11) Slats material to have a min. yield strength of 50,000 psi.
Masonry Jamb - "Z" Mtd. (Shown)

Steel Jamb - "E" Mtd.

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 wind loads on the rolling steel door. The existing structure must be capable of resisting Fx and Fy forces shown.

Welding Detail

T = Back Angle Thickness

Concrete Column: 3000 psi (See Chart)

Wall Fasteners: 1/2" x 4 1/2" Wood Screw, Max. Bolt Spacing (See Chart)

Nut and washer must be used if tapped thread engagement is less than 1/4" for 1/2" dia. bolt.

Wall Fasteners: 1/2" x 1/2" Wood Screw, Grade 8

Welded Back Angle (See Dake No. Profile)

Assembly Hardware (See Dake No. Profile)

Beck Angle

231 x 126 Wooshing Bolt

Fy(+)

Fx

Masonry Jamb - "Z" Mtd. (Shown)

Steel Jamb - "E" Mtd.