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: Showcase / Masterpiece / TC200 Steel Sectional Garage Doors up to 9'-0" Wide

APPROVAL DOCUMENT: Drawing No. P-3305, titled “Spec. Wind Load Showcase / Masterpiece / TC200”, sheets 1 through 3 of 3, dated 07/31/2007, with last revision C dated 07/02/2018, prepared by Raynor Garage Doors, signed and sealed by Scott A. Brown, 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 Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer’s name or logo, manufacturing address, model 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.

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 # 17-1026.12 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. Urrera, P.E.

NOA No. 18-0821.09
Expiration Date: December 11, 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 # 15-0714.09"

B. TESTS "Submitted under NOA # 10-0420.03"
   1. Test report on Forced Entry Resistance Test, per FBC 2411 3.2.1, TAS 202-94 of two 16'x 7' Sectional Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. G493-0706-10, dated 08/10/2010, signed & sealed by Vinu Abraham, P.E. "Submitted under NOA # 08-0709.12"
   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
   Along with marked-up drawings and installation diagram of a 9'x Showcase / Masterpiece / TC200 Sectional Steel Garage Door, prepared by Hurricane Test Laboratory, LLC, Test Report No. G493-0205-08, dated 03/12/2008, signed and sealed by Vinu J. Abraham, P.E.
   3. Test report on Tensile Test per ASTM E8, of steel sheet, prepared by Certified Testing Lab., Test Report No. 0156Q, dated 04/01/08, signed & sealed by Ramesh Patel, P.E.

C. CALCULATIONS "Submitted under NOA # 08-0709.12"
   1. Jamb attachment verification calculations, prepared by 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
   1. Test report on Surface Burning Characteristics, per ASTM E84 of Type IX EPS, Report No. 3147467SAT-001, prepared by Intertek Testing Services, NA, Inc., dated 04/10/2008, signed by Chris Bowness, P.E.
   2. Test report on Self-Ignition Temperature per ASTM D1929 of Type IX EPS, prepared by Intertek Testing Services, NA, Test Report No. 3147467SAT-002, dated 05/26/2006, signed by Chris Bowness, P.E.
   3. Notice of Acceptance No. 11-0926.07, issued to Dyplast Products LLC, for their EPS Block Type Insulation, approved on 11/10/2011, and expiring on 01/11/2017.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 18-0821.09
Expiration Date: December 11, 2023
Approval Date: December 6, 2018

E - 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS “Submitted under NOA # 15-0714.09”

   “Submitted under NOA # 13-0829.15”
   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 # 08-0709.12”
   3. Statement letter of no financial interest issued by Wendler Engineering Services, Inc., dated 05/19/2008, signed and sealed by Richard A. Baumann, P.E.

2. Evidence submitted under NOA # 17-1026.12

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. 18-0821.09
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NOTICE OF ACCEPTANCE:  EVIDENCE SUBMITTED

3. New evidence submitted

A. DRAWINGS

B. TESTS
   1. None.

C. CALCULATIONS
   1. Jamb load fastener calculations prepared by Wendler Engineering Services, Inc., dated 07/31/2018, signed and sealed by Scott A. Brown, P.E.

D. QUALITY ASSURANCE
   1. Miami-Dade County 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 08/01/2018, signed by Scott A. Brown, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 18-0821.09
Expiration Date: December 11, 2023
Approval Date: December 6, 2018
INTERIOR SKIN
0.018 THICK G-40 GALVANIZED STEEL WITH AN EPOXY PRIMER
AND BAKED ON POLYESTER FIBER-WHICH IS ROLL-FORMED WITH
WOOD GRAIN TEXTURE AND STAMPED WITH EMBOSSED PANELS
FOR SHOWCASE AND MASTERPIECE IS SMOOTH FOR T2000
MINIMUM YIELD STRENGTH = 13040 PSI

EXTERIOR SKIN
0.018 THICK G-40 GALVANIZED STEEL WITH AN EPOXY PRIMER
AND BAKED ON POLYESTER FIBER-WHICH IS ROLL-FORMED WITH
WOOD GRAIN TEXTURE
MINIMUM YIELD STRENGTH = 13040 PSI

END STILES SEE DETAIL ON SHT 3
INSULATION CORE EXPANDED POLYSTYRENE 1 LBF
HARDWARE PLATES SEE DETAIL ON SHT 3
CENTER HINGE SEE DETAIL ON SHT 2
SECTION B-B
RETAINING NUT 7/16" PUSH ON
RETAILNUT NUTs (1)
REQUIRED PER ROLLER
SEE DETAIL ON SHT 2
STEEL U-BAR
SEE DETAIL ON SHT 2
SINGLE EDGE VINGE
SEE DETAIL ON SHT 2
SPRING COUNTERBALANCE
SPRING WIRE INDIVIDUALLY
CALCULATED TO COUNTERBALANCE
DOOR QUANTITY AND SIZE OF
SPRING WILL VARY BASE ON
DOOR SIZE.
TOP FIXTURE
FASTENED WITH (3) 1/4" X 5/8"
THREAD-FORMING
SELF-TAPPING SCREWS SEE
DETAIL ON SHT 2.
STEEL U-BAR REINFORCEMENT
ONE (1) LBAR PER SECTION
FASTENED TO BOTH END STILES
USING (2) 1/4" X 5/8"
THREAD-FORMING SELF-TAPPING
SCREWS AT EACH LOCATION SEE
DETAIL ON SHT 2.
INTERIOR LOCK
TWO (2) ZSP PER DOOR.
LOCATE OPPOSITE EACH OTHER
TO ENGAGE EACH TRACK 5/8" 
MIN. SEE DETAIL ON SHT 2.
CORNER BRACKET
FASTENED WITH (4) 1/4" X 5/8"
THREAD-FORMING SELF-TAPPING
SCREWS SEE DETAIL ON SHT 2.
VENTS (OPTIONAL)
80 SQ. IN. OF VENT OPENINGS MAY
BE LOCATED IN BOTTOM SECTION
AS REQUIRED.
DOORS TESTED PER TAS 202
FOR STATIC AIR PRESSURE
TESTED PER TAS 201 AND TAS 203 FOR LARGE
MISSILE IMPACT AND CYCLIC WIND PRESSURE
DESIGN PRESSURE = 52.0 - 60.0 PSF
LARGE MISSILE IMPACT RESISTANT
PRODUCT REVISED as complying with the Florida
Building Code
NOA-No. 18-0821.09
Expiration Date 12/11/2023
By
Miami-Dade Product Control
Scott A. Brown, P.E. Lic. No. 65940
Wendler Engineers, Services, Inc.
698 Timber Creek Road, Dixon, IL 61021
FBPE CA Lic. No. 31544
Structural Adequacy for Wind Load
PRODUCT REVISED

as complying with the Florida Building Code
NOA-No. 18-0821.09
Expiry Date 12/11/2023

By Miami-Dade Product Control

Scott A. Brown
P.E. Lic. No. 65940
Structural Adequacy for Wind Load

Raynor
SPEC, WINDLOAD
SHOWCASE / MASTERPIECE / TCD00

No. P-3305 SHEET 2 OF 3 REV C
JAMB ATTACHMENT NOTES

1. MAXIMUM POSITIVE LOAD PER JAMB = (0.32 X 52.0 PSF) / 2 = 324 LBS PER FOOT
2. MAXIMUM NEGATIVE LOAD PER JAMB = (0.32 X 52.0 PSF) / 2 = 324 LBS PER FOOT
4. ALTERNATE JAMB ATTACHMENTS MAY BE USED IF APPROVED BY A REGISTERED PROFESSIONAL ENGINEER.
5. 2 X 6 MOUNTED TO THE WALL MUST BE DOTHER PINE GRADE 2 OR BETTER.

<table>
<thead>
<tr>
<th>STRUCTURE TYPE</th>
<th>FASTENER TYPE</th>
<th>MINIMUM DOWEL DIAMETER</th>
<th>MINIMUM EDGE DISTANCE</th>
<th>MAXIMUM CENTER SPACING</th>
<th>MINIMUM DOWEL LENGTH</th>
<th>ALLOWABLE TENSION LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000 PB MIN. CONCRETE</td>
<td>1/4&quot; TAPCON WITH 1/2&quot; DD WASHER</td>
<td>1/4&quot;</td>
<td>2&quot;</td>
<td>4&quot;</td>
<td>2&quot;</td>
<td>443 LBS</td>
</tr>
<tr>
<td>SOUTHERN PINE (2 X 8)</td>
<td>3/8&quot; LAG WITH 1-1/2&quot; DD WASHER</td>
<td>1-1/2&quot;</td>
<td>2&quot;</td>
<td>4&quot;</td>
<td>24&quot;</td>
<td>658 LBS</td>
</tr>
<tr>
<td>SPACE PINE FH (6 X 4)</td>
<td>3/8&quot; LAG WITH 1-1/2&quot; DD WASHER</td>
<td>1-1/2&quot;</td>
<td>2&quot;</td>
<td>4&quot;</td>
<td>24&quot;</td>
<td>658 LBS</td>
</tr>
</tbody>
</table>

FIRST FASTENER 6" ABOVE THE FLOOR

NO LOAD FROM WIND APPLIED TO HORIZONTAL MEMBER

PRODUCT REVISED as complying with the Florida Building Code
NOA-No. 18-0821.09
Expiration Date 12/11/2023
By Miami-Based Product Control