TKO Doors, Div. of 4Front Engineered Solutions, Inc.
N56 W24701 N. Corporate Circle
Sussex, WI 53089

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: Model VC-2 WL Dock Plastic Sectional Garage Door up to 10'-0” Wide x 12'-0” High

Approval Document: Drawing No. 15-2400, titled “Fiberglass Dock Doors VC-2 WL Overhead Garage Door”, sheet 1 through 7 of 7, dated 05/06/2013, with last revision dated 06/21/2016, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 03/29/2018, 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, 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 NOA # 16-0725.05 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.
TKO Doors, Div. of 4Front Engineered Solutions, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Submitted under previous NOA's

A. DRAWINGS "Submitted under NOA # 15-0916.10"
   1. Drawing No. 15-2400, titled "Fiberglass Dock Doors VC-2 WL Overhead Garage Door", sheet 1 through 7 of 7, dated 05/06/2013, with last revision dated 05/12/2015, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS "Submitted under NOA # 13-0521.05"
   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 Test, per FBC TAS 202-94

C. CALCULATIONS "Submitted under NOA # 15-0916.10"
   1. Jamb anchor calculations prepared by Engineering Express, dated 05/05/2015, signed and sealed by Frank L. Bennardo, P.E.
      "Submitted under NOA # 13-0521.05"
   2. Jamb anchor calculations prepared by Engineering Express, dated 05/14/2013 and 01/27/2014, signed and sealed by Frank L. Bennardo, P.E.

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

E. MATERIAL CERTIFICATIONS "Submitted under NOA # 13-0521.05"
   1. Test report on Flame Spread Index and Smoke Developed Index per UL-723 of XEPS foam insulation, Test Report No. BRYX.R3573 dated 07/12/2010.

F. STATEMENTS "Submitted under NOA # 15-0916.10"
   1. Statement letter of code conformance with the 5th edition (2014) FBC issued by Engineering Express, dated 05/19/2015, signed and sealed by Frank L. Bennardo, P.E.
   2. Statement letter of no financial interest issued by Engineering Express, dated 05/19/2015, signed and sealed by Frank L. Bennardo, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 18-1226.06
Expiration Date: March 13, 2024
Approval Date: February 7, 2019

E - 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 16-0725.05

A. DRAWINGS

B. TESTS
   1. Test report on Airflow (Infiltration and Exfiltration) Rate, per ASTM E283-04 of a Verticool 2” (VC-2) WL dock door, prepared by Intertek/ATI, Test Report No. E7174.01-602-18, dated 07/21/2015, signed and sealed by Justin P. McDonald, P.E.

C. CALCULATIONS
   1. None.

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 Engineering Express, dated 03/29/2018, signed and sealed by Frank L. Bennardo, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 18-1226.06
Expiration Date: March 13, 2024
Approval Date: February 7, 2019
VC-2 WL DOCK DOORS
LARGE MISSILE IMPACT RESISTANT

DETAIL B
SCALE 1/5

PLAN VIEW

115'-000" PANEL WIDTH
NOTE: PANELS MANUFACTURED 2,000" LESS THAN DOOR OPENING

48.000" MAX PANEL HEIGHT
146.000" MAX DOOR HEIGHT WITH THREE PANELS

46.000" MAX PANEL HEIGHT

SEE SHEET 2 OF 7 FOR DETAILS PANEL MOUNTING

SEE SHEET 3 OF 7 FOR DETAIL PANEL COMPONENTS

SEE SHEET 4 OF 7 FOR DETAIL LOWER TRACK ASSEMBLY

SEE SHEET 5 OF 7 FOR DETAIL PANEL HARDWARE

SEE SHEET 6 OF 7 AND 7 OF 7 FOR DETAIL PANEL HARDWARE

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SIXTH EDITION (2017), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS.

2. NO 33-1/2% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR CA-1.4 HAS BEEN USED FOR WOOD ANCHOR DESIGN.

3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ABCE 7 AND CHAP 1630 OF THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

4. ALLOWABLE DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.

5. THE SYSTEM DESCRIBED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONSTRUCTION WITH THIS DOCUMENT.

6. CONTRACTOR SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKETS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

7. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60,000 PSI.

8. ALL SIMILAR MATERIALS IN CONTACT SHALL BE PANDED, PLATED OR OTHERWISE INSULATED.

9. DOOR HEIGHT MAY VARY UP TO A MAXIMUM HEIGHT OF 34'-4", PROVIDED THAT INDIVIDUAL PANEL HEIGHTS DO NOT EXCEED 48'.

10. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.

ALLOWABLE DESIGN PRESSURES
+52.0 PSF
-52.0 PSF

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as complying with the Florida Building Code
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as complying with the Florida Building Code
NOA-No. 16-0725.05
Expiration Date 03/13/2019
By Miami-Dade Product Control
ANCHORING NOTES:
1. THIS SYSTEM SHALL BE ANCHORED WITH ANY OF THE ANCHORING METHODS SHOWN HEREIN, WITH (2) ANCHORS LOCATED 3" AND 12" FROM THE BOTTOM OF THE TRACK AND 13" D.C. MAX THEREAFTER OR EVERY OTHER MOUNTING SLOT.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
3. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2" (MIN) WOOD STUD (I.E., 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
4. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" #2 OR GREATER DENSITY.
5. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR DETAIL. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
6. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
7. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
8. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF BASE ANCHOR DESIGNED TO ENSURE PROPER FUNCTIONALITY IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR NUT HEAD ("SIDEWALK BOLT") U.M.O.

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FASTENER NOTE:
FIXED PULLEYS, HANDLES, AND TPU BRACKETS ARE MOUNTED TO THE PANEL USING:
(10) 1/4-20 X 3/8" CARROUSEL BOLTS AND (4) 1/4-20 FLANGE NUTS.
HINGE SETS ARE MOUNTED TO THE PANEL USING:
(10) 1/4-20 X 3/4" CARROUSEL BOLTS AND 1/4-20 FLANGE NUTS.
SLIDE LOCKS ARE MOUNTED TO THE PANELS USING:
(4) #10 X 3/4" TEK SCREWS.

0.375 THK
BASE PLATE

2.248
2.540
0.255

HEIGHT VARYS WITH DOOR SIZE

4.400
3.000

LENGTH VARYS WITH DOOR SIZE

2.000

KIT CENTER POST, HEAVY-WT ALUMINUM ALLOY 6065-T6 TKO PART NO. 35-00997

CENTER POST ASSEMBLY, HEAVY TKO PART NO. 35-00995

3/8" GALV. LANYARD, POST TETHER, PART NO. 10-03560

CENTER POST ASSEMBLY, HEAVY TKO PART NO. 35-00995

MIN 12-GA STEEL HOUSING

1/8" OAL
FULL RING

1/4" OAL
PLATE RING

KNOCK-OUT LOCK PIN WINDOW
1/4" OAL 12L14 CARBON STEEL ZINC PLATED PART NO. 10-00227

KNOCK-OUT LOCK PIN 3/16" OAL CARBON STEEL ZINC PLATED PART NO. 10-00151

10-GA HRP" CLEAR ZINC HANDLE PART NO. 35-00613

12-GA M53 SQ PANEL PLATE PART NO. 20-01814

12-GA M53 SQ BRACKET POST PART NO. 20-02318

*HRP" HOT ROLLED, PICKLED & OILED STEEL.

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