IDENTIFICATION: Model TW WL Dock Plastic Sectional Garage Door up to 10'-0" Wide x 10'0" High

APPROVAL DOCUMENT: Drawing No. 15-2399, titled "Fiberglass Dock Doors TW 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 03/27/2018, 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, 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.
TKO Doors, Div. of 4Front Engineered Solutions, Inc.

NOTICE OF ACCEPTANCE:  EVIDENCE SUBMITTED

1. Submitted under previous NOA’s

   A. DRAWINGS “Submitted under NOA #15-0916.09”
      1. Drawing No. 15-2399, titled “Fiberglass Dock Doors TW WL Overhead Garage Door”, sheet 1 through 7 of 7, dated 05/06/2013, with last revision dated 05/06/2015, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

   B. TESTS “Submitted under NOA # 13-0521.04”
      1. 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

      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 #15-0916.09”
      1. Jamb anchor calculations prepared by Engineering Express, dated 05/05/2015, signed and sealed by Frank L. Bennardo, P.E.

      “Submitted under NOA # 13-0521.04”

      2. Jamb anchor calculations prepared by Engineering Express, dated 05/14/2013 and 05/22/2014, 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 # 13-0521.04”
      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.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 16-0725.04
Expiration Date: August 14, 2019
Approval Date: May 24, 2018

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS “Submitted under NOA #15-0916.09”
   1. Statement letter of code conformance with the 5th edition (2014) FBC, issued by Engineering Express, dated 05/04/2015, signed and sealed by Frank L. Bennardo, P.E.
   2. Statement letter of no financial interest issued by Engineering Express, dated 05/04/2015, signed and sealed by Frank L. Bennardo, P.E.

2. New evidence submitted

A. DRAWINGS
   1. Drawing No. 15-2399, titled “Fiberglass Dock Doors TW 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 03/27/2018.

B. TESTS
   1. Test report on Airflow (Infiltration and Exfiltration) Rate, per ASTM E283-04 of a Thermal Weight (TW) 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.
TW WL DOCK DOORS
LARGE MISSILE IMPACT RESISTANT

PRODUCT REVISED as complying with the Florida Building Code
NQA-No. 16-0725.04
Expiration Date 08/14/2019
By Miami-Dade Product Control

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 C=1.6 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 ASCE 7 and chapter 1620 of the Florida Building Code shall be less than or equal to the positive or negative design pressure capacity values listed herein for any assembly as shown.
4. Design pressures noted herein are based on maximum tested pressures divided by a 1.5 safety factor.
5. The system detailed 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 conjunction with this document.
6. Contractor shall verify the adequacy of the existing structure to withstand superimposed loads. Wood beams (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 KSI U.S.N.
8. All dissimilar materials in contact shall be painted, plated or otherwise insulated.
9. Door height may vary up to a maximum height of 116", provided that individual panel heights do not exceed 24".
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
ANCHORING NOTES:

1. This system shall be anchored with any of the anchoring methods shown herein, with a minimum of (2) anchors located 3" and 12" max. from the bottom of the track and 12" O.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 2x (MIN) wood stud (i.e., 3/4" edge distance is acceptable for anchors to wood framing).

4. Wood host structure shall be "Southern Pine" G=0.55 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 threads in base anchor and may have either a pan head, truss head, or washer head ("sidewalk bolt") U.N.O.

*UHMW (ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE)