

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

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

APPROVAL DOCUMENT: Drawing No. 13-TKO-0202, titled "Fiberglass Dock Doors TW WL Overhead Garage Door", sheet 1 through 7 of 7, dated 05/06/2013, with last revision dated 05/16/2014, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval 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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Carlos M. Utrera, P.E.

MIAMI-DADE COUNTY
APPROVED

1 108/05/2014

NOA No 13-0521.04 Expiration Date: August 14, 2019 Approval Date: August 14, 2014

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 13-TKO-0202, titled "Fiberglass Dock Doors TW WL Overhead Garage Door", sheet 1 through 7 of 7, dated 05/06/2013, with last revision dated 05/16/2014, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS

- 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

Along with marked-up drawings and installation diagram of Welter Weight Doors, prepared by Architectural Testing, Inc., Test Report No. **D5680.01-602-18**, dated 04/07/2014, 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 Test, per FBC TAS 202-94

Along with marked-up drawings and installation diagram of Welter Weight Doors, prepared by Architectural Testing, Inc., Test Report No. C3614.01-602-18, dated 03/28/2013, signed and sealed by Shawn G. Collins, P.E.

3. Test report on Self-ignition Temperature per ASTM D1929, Smoke Density Rating per ASTM D2843 and Rate of Burn per ASTM D635 of various plastic door components, prepared by Architectural Testing, Inc., Test Report No. C2850.01-106-18, dated 11/21/2012, signed and sealed by Gary T. Hartman, P.E.

C. CALCULATIONS

1. 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

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

- 1. Statement letter of code conformance with 2010 FBC, issued by Engineering Express, dated 05/06/2013, signed and sealed by Frank L. Bennardo, P.E.
- 2. Statement letter of no financial interest issued by Engineering Express, dated 05/06/2013, signed and sealed by Frank L. Bennardo, P.E.

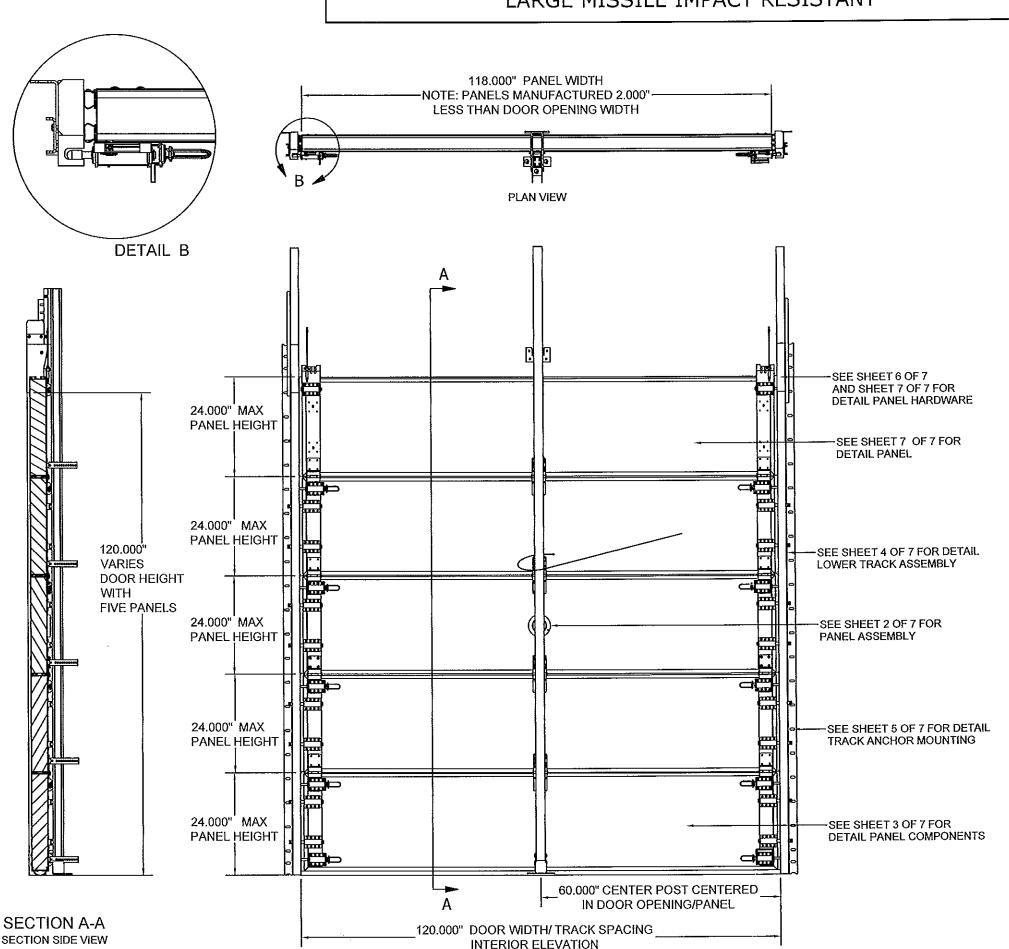
Carlos M. Utrera, P.E.

Product Control Examiner NOA No 13-0521.04

Expiration Date: August 14, 2019 Approval Date: August 14, 2014

TW WL DOCK DOORS

LARGE MISSILE IMPACT RESISTANT



GENERAL NOTES

- 1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE, FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS.
- 2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=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 BUCKS (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.O.N.
- 8. ALL DISSIMILAR MATERIALS IN CONTACT SHALL BE PAINTED, PLATED OR OTHERWISE INSULATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE.
- 9. DOOR HEIGHT MAY VARY UP TO A MAXIMUM HEIGHT OF 120", 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

Approved as complying with the Florida Building Code Date 08/4/20/4 NOA 13-0521-04 Mismi Dade Product Control

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> 3089 AX: (262) 246-1301 K DOORS NRAGE DOOR

ISC.

TKO DOORS, DIVISION OF 4FRONT ENGINEERED

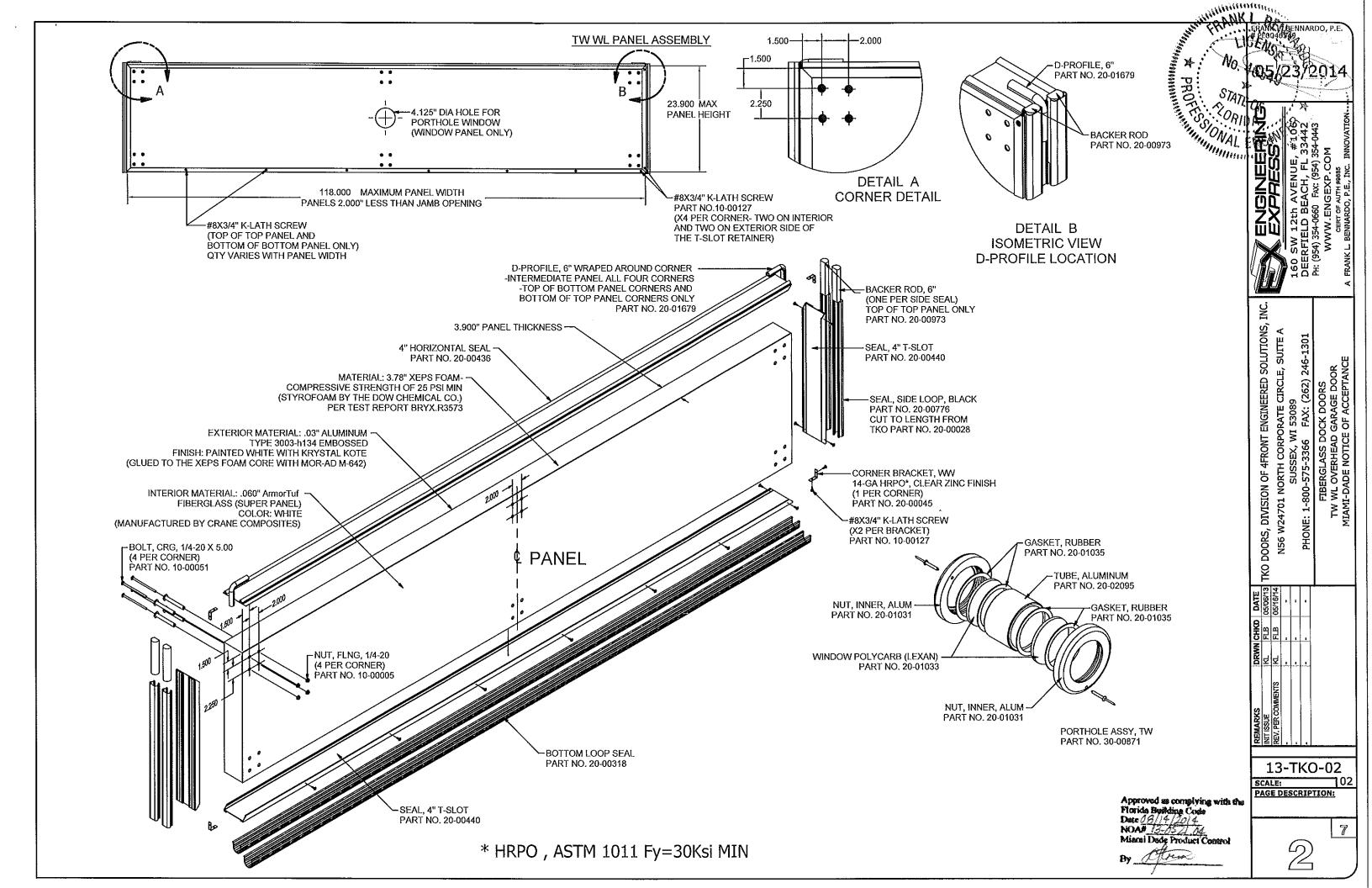
PHONE: 1-800-575-3366 F
FIBERGLASS DOC
TW WL OVERHEAD GA

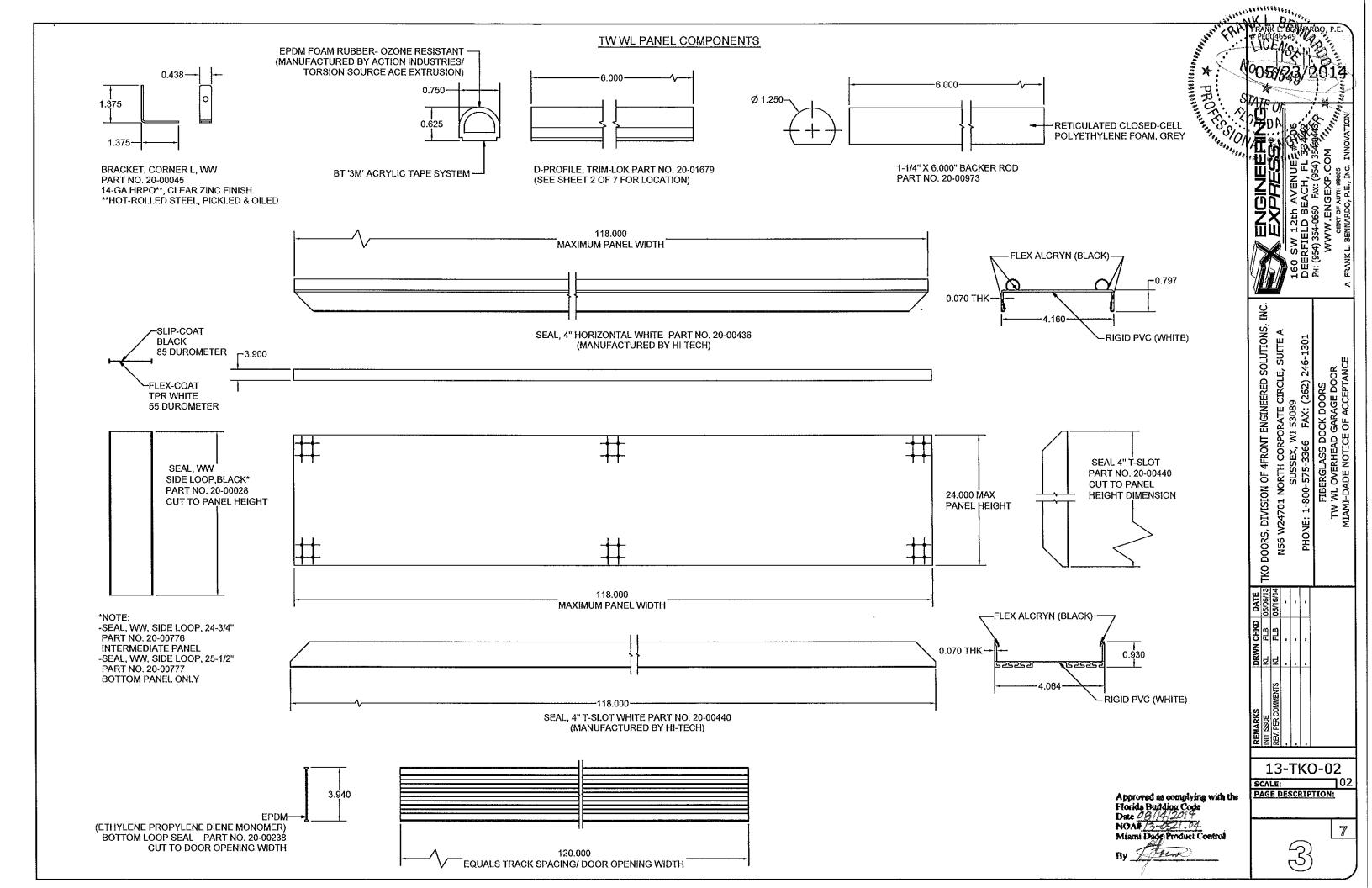
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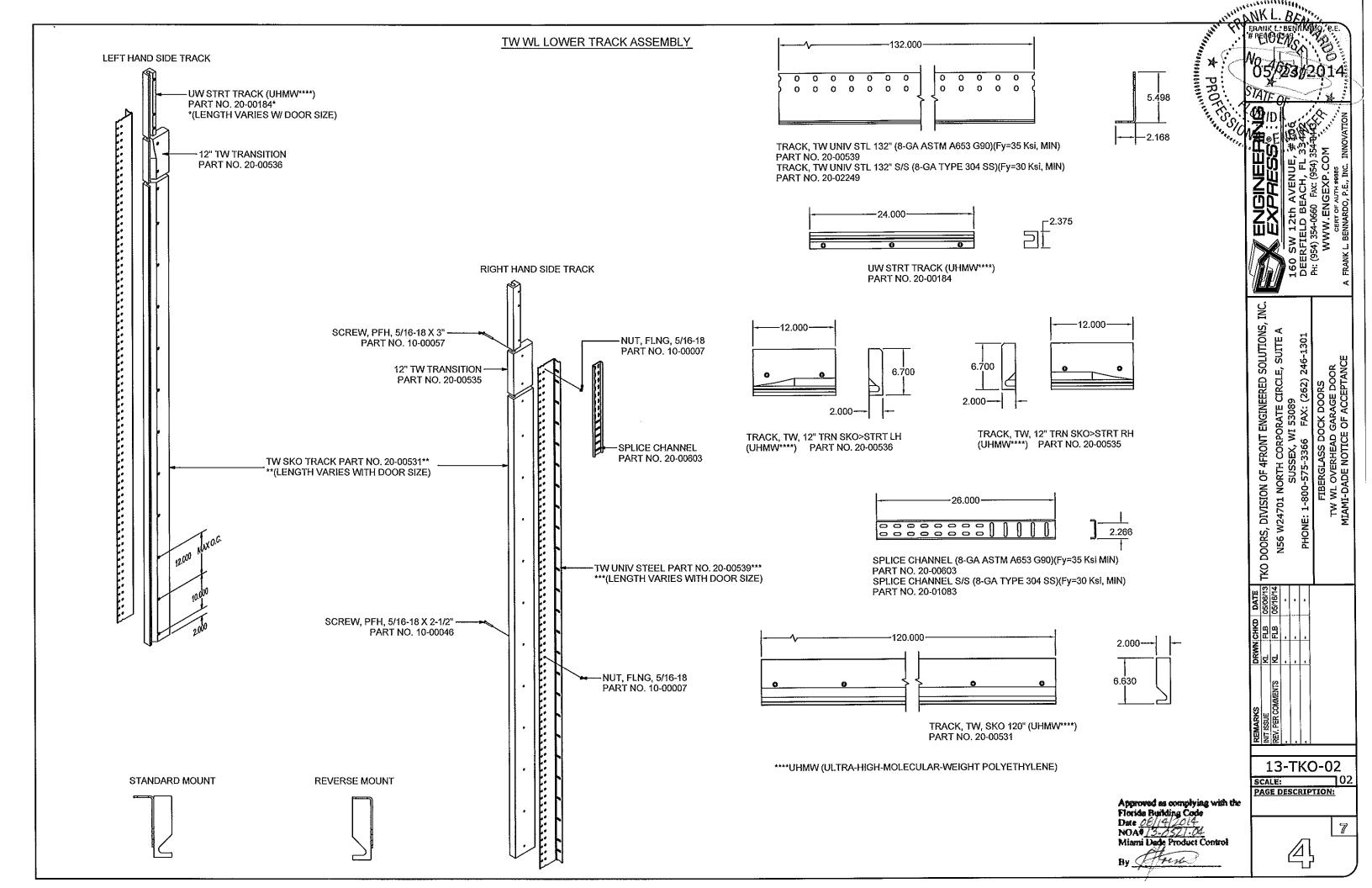
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SCALE: PAGE DESCRIPTION:

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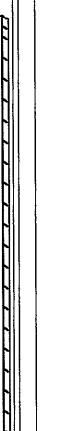
ANGLE TO BLOCK/ CONCRETE (STANDARD MOUNT) ANGLE TO STEEL WITH PLUG WELD (REVERSE MOUNT) MIN. EDGE 10 GA MIN. DISTANCE A36 STEEL 2.168--PLUG WELD 3/8"Ø POWERS DOUBLE-(FULLY WELD TRACK ANCHOR **EXPANSION ANCHOR TO** HOLE, E70XX ELECTRODE) HOLLOW OR GROUT FILLED CONCRETE BLOCK, WITH 1-1/2" MIN. EMBED., 4" MIN. EDGE DISTANCE/CENTER OF CELL; OR 3/8"Ø POWERS (SEE ANCHORING NOTES) WEDGE BOLT ANCHOR, 2" MIN. EDGE DISTANCE, 2-1/2" MIN. EMBED, INTO GROUT FILLED CONCRETE BLOCK. (SEE ANCHORING NOTES) ANGLE TO STEEL WITH STITCH WELD (REVERSE MOUNT) STEEL ANGLE TRACK ANCHOR SLOT 10 GA MIN. A36 STEEL 1-1/2" LONG--1-1/2" LONG STITCH WELD STITCH WELD (1/4" FILLET (1/4" FILLET WÈLD, E70XX) WELD, E70XX) DETAIL A (SEE ANCHORING NOTES) (SEE ANCHORING NOTES) SKO TRACK (PLASTIC) 3/8" X 3" LAG BOLT WITH 1-3/4" MIN THREAD PENETRATION, 3/4" MIN. EDGE DISTANCE. -TW UNIV STEEL (SEE ANCHORING NOTES) TEST MOUNTING ON WOOD

TRACK ANCHOR MOUNTING

12.000 MAX. TYP.

9.000

-3.000



ANCHORING NOTES:

1. THIS SYSTEM SHALL BE ANCHORED WITH ANT OF THE ANCHORING METHODS SHOWN HEREIN, WITH AN MINIMUM OF (2) ANCHORS LOCATED 3" AND 12" MAY OF THE ANCHORENCE OF FROM THE BOTTOM OF THE TRACK AND 12" O.C. MAX'S THEREAFTER.

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 WAFER HEAD ("SIDEWALK BOLT") U.N.O.

(262) 246-1301

SOLUTIONS,

DIVISION OF 4FRONT

DOORS, I

13-TKO-02 SCALE:

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Approved as complying with the Florida Building Code Mismi Dade Product Control

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