



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 CW WL Plastic Sectional Garage Door up to 10'-0" Wide

APPROVAL DOCUMENT: Drawing No. **11-TKO-0001**, titled "Fiberglass Dock Doors CW WL Overhead Garage Door", sheet 1 through 7 of 7, dated 04/14/2011, with last revision dated 10/09/2012, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control revision 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 **revises** NOA # **11-1215.02** 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.**



Carlos M. Utrera
12/12/2012

NOA No 12-1019.12
Expiration Date: September 15, 2016
Approval Date: December 20, 2012
Page 1


NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **11-TKO-0001**, titled "Fiberglass Dock Doors CW WL Overhead Garage Door", sheet 1 through 7 of 7, dated 04/14/2011, with last revision dated 10/09/2012, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS "*Submitted under NOA # 11-0513.04*"

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 2411 3.2.1, TAS 202-94
Along with marked-up drawings and installation diagram of Series/Model CW WL, dock door, prepared by Architectural Testing, Inc., Test Report No. **98517.01-602-18**, dated 03/24/2010, signed and sealed by Joseph A. Reed, 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
Along with marked-up drawings and installation diagram of Series/Model CW WL, dock door, prepared by Architectural Testing, Inc., Test Report No. **89514.01-602-18**, dated 04/24/2009, signed and sealed by Joseph A. Reed, P.E.
3. Test report on Accelerated Weathering using Xenon Arc Light Apparatus for 4500 hours, per ASTM G155-04 and on Tensile Test per ASTM D638 of FRP composite panels, prepared by Architectural Testing, Inc., Test Report No. **A3696.01-106-18**, dated 05/04/2011, signed and sealed by Joseph A. Reed, P.E.
4. Test report on Self-ignition Temperature per ASTM D1929-96(2000)e1 of various plastic and fiberglass door components, prepared by Architectural Testing, Inc., Test Report No. **95487.01-106-31**, dated 11/04/2009, signed and sealed by Joseph A. Reed, P.E.
5. Test report on Smoke Density Rating per ASTM D2843-99(2004) of different types of plastics, prepared by Architectural Testing, Inc., Test Report No. **92103.01-106-18**, dated 05/04/2011, signed and sealed by Joseph A. Reed, P.E.
6. Test report on Smoke Density Rating per ASTM D2843-99(2004) of vinyl and seals, prepared by Architectural Testing, Inc., Test Report No. **95487.02-106-31**, dated 11/04/2009, signed and sealed by Joseph A. Reed, P.E.



12/12/2012

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 12-1019.12

Expiration Date: September 15, 2016
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED) “Submitted under NOA # 11-0513.04”

7. Test report on Rate of Burn per ASTM D635-06 of different types of plastics, prepared by Architectural Testing, Inc., Test Report No. **92103.02-106-18**, dated 08/19/2009, signed and sealed by Joseph A. Reed, P.E.
8. Test report on Rate of Burn per ASTM D635-06 of vinyl and seals, prepared by Architectural Testing, Inc., Test Report No. **95487.03-106-31**, dated 11/04/2009, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS “Submitted under NOA # 11-0513.04”

1. Jamb anchor calculations, complying with FBC-2007, prepared by Engineering Express, dated 04/15/2011, signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

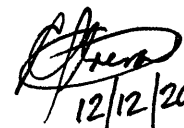
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS “Submitted under NOA # 11-0513.04”

1. Test report on Self-Ignition Temperature per ASTM D1929-96(2000), Flame Spread Index and Smoke Developed Index per ASTM D84-10b of RayLite EPS foam insulation, prepared by Architectural Testing, Inc., Test Report No. **B1755.01-122-18**, dated 08/17/2011, signed and sealed by Michael D. Stremmel, P.E.

F. STATEMENTS “Submitted under NOA # 11-1215.02”

1. Statement letter of code conformance with 2010 FBC, issued by Engineering Express, dated 12/02/2011, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 12/02/2011, signed and sealed by Frank L. Bennardo, P.E.



12/12/2012

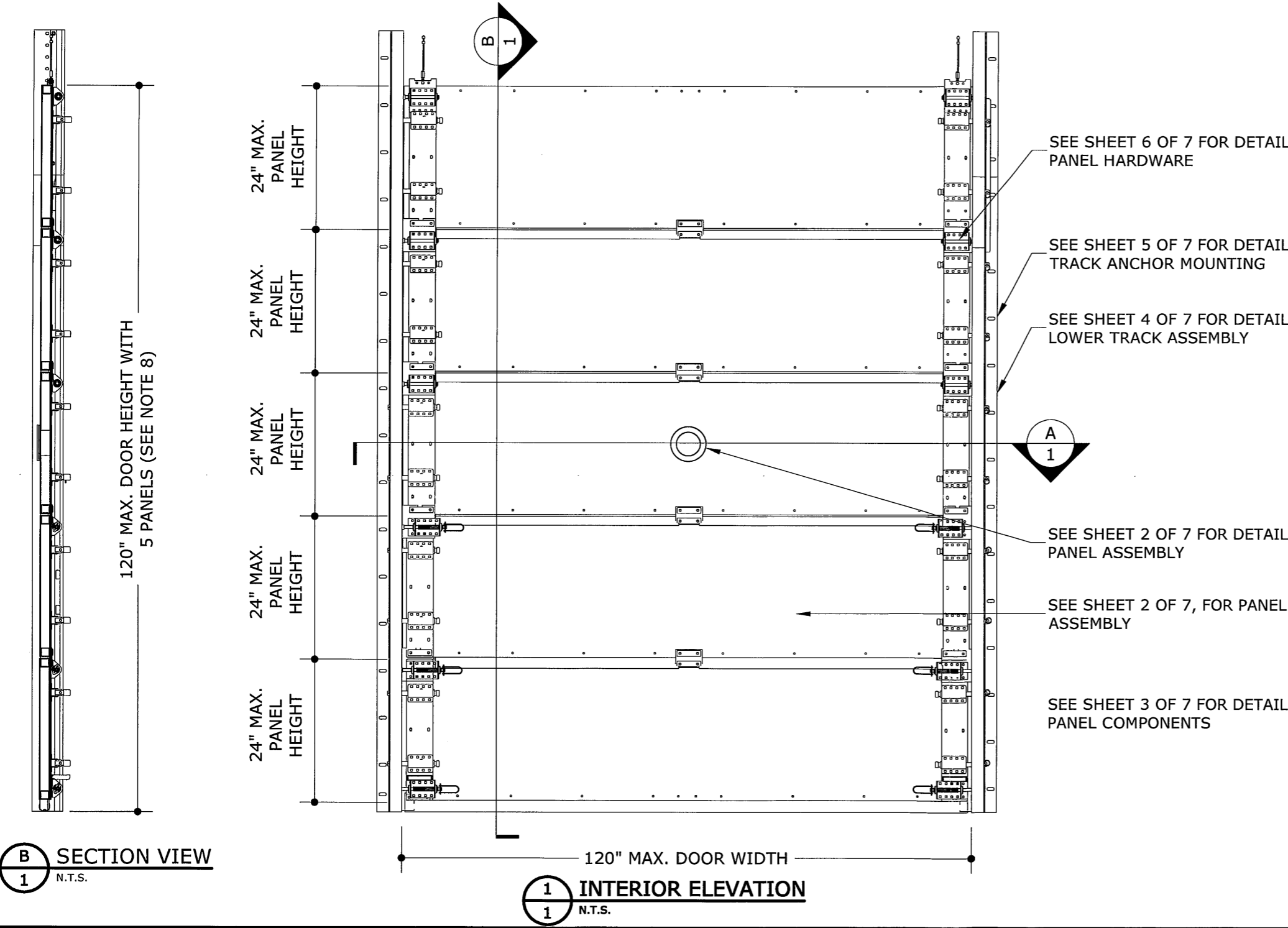
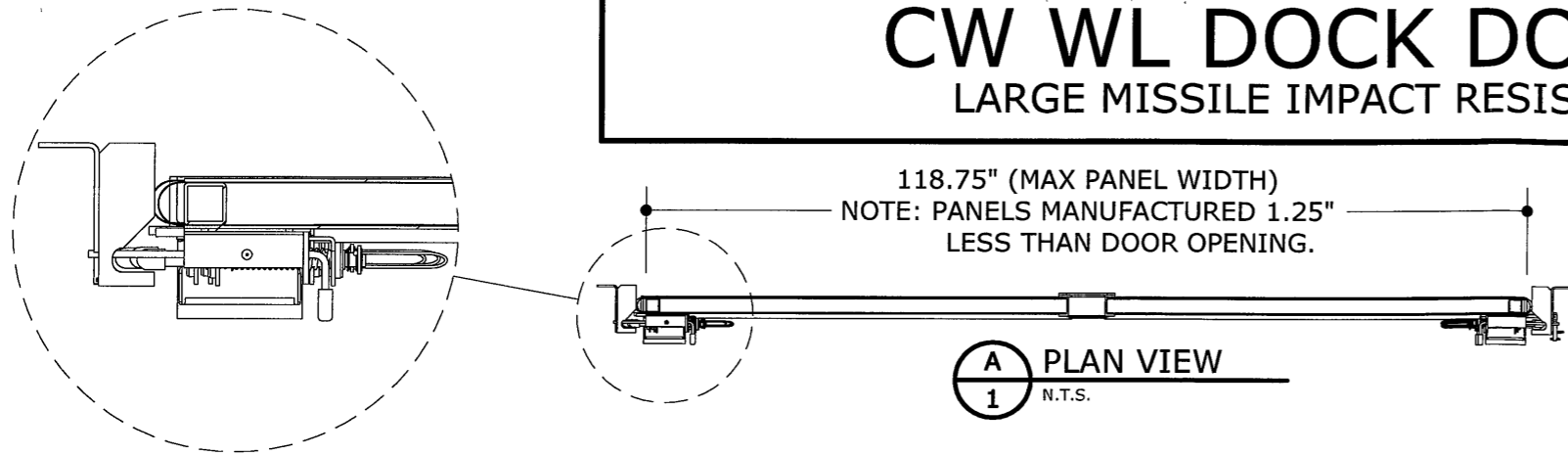
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 12-1019.12

Expiration Date: September 15, 2016
Approval Date: December 20, 2012

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CW WL DOCK DOORS

LARGE MISSILE IMPACT RESISTANT



GENERAL NOTES

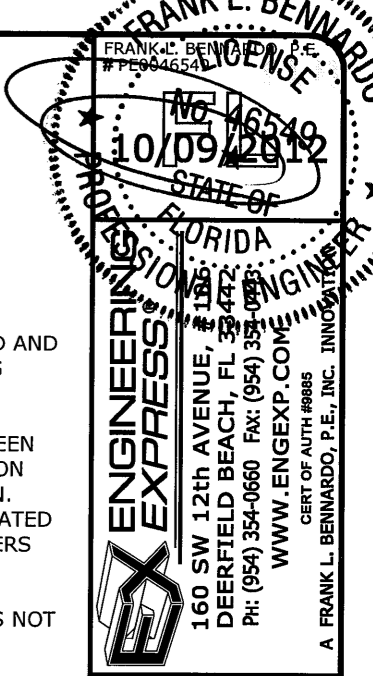
1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE, FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
4. 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.
5. 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.
6. 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.
7. ALL DISSIMILAR MATERIALS IN CONTACT SHALL BE PAINTED, PLATED OR OTHERWISE INSULATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE.
8. DOOR HEIGHT MAY VARY UP TO A MAXIMUM HEIGHT OF 120", PROVIDED THAT INDIVIDUAL PANEL HEIGHTS DO NOT EXCEED 24", AND A TOP PANEL IS USED AS SHOWN IN DETAIL 1/6.
9. 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
-67.5 PSF

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-1019.12
Expiration Date 07/15/2016

By *[Signature]*
Miami Made Product Control



TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301

FIBERGLASS DOCK DOORS
CW WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

| REMARKS | DRWN | CHKD | DATE |
|-----------------------|------|------|----------|
| INIT ISSUE | KL | FLB | 04/14/11 |
| REV. PER BNC COMMENTS | KL | FLB | 08/23/11 |
| 2010 FBC | KL | FLB | 12/02/11 |
| NAME CHANGE | KL | FLB | 10/09/12 |

11-TKO-0001

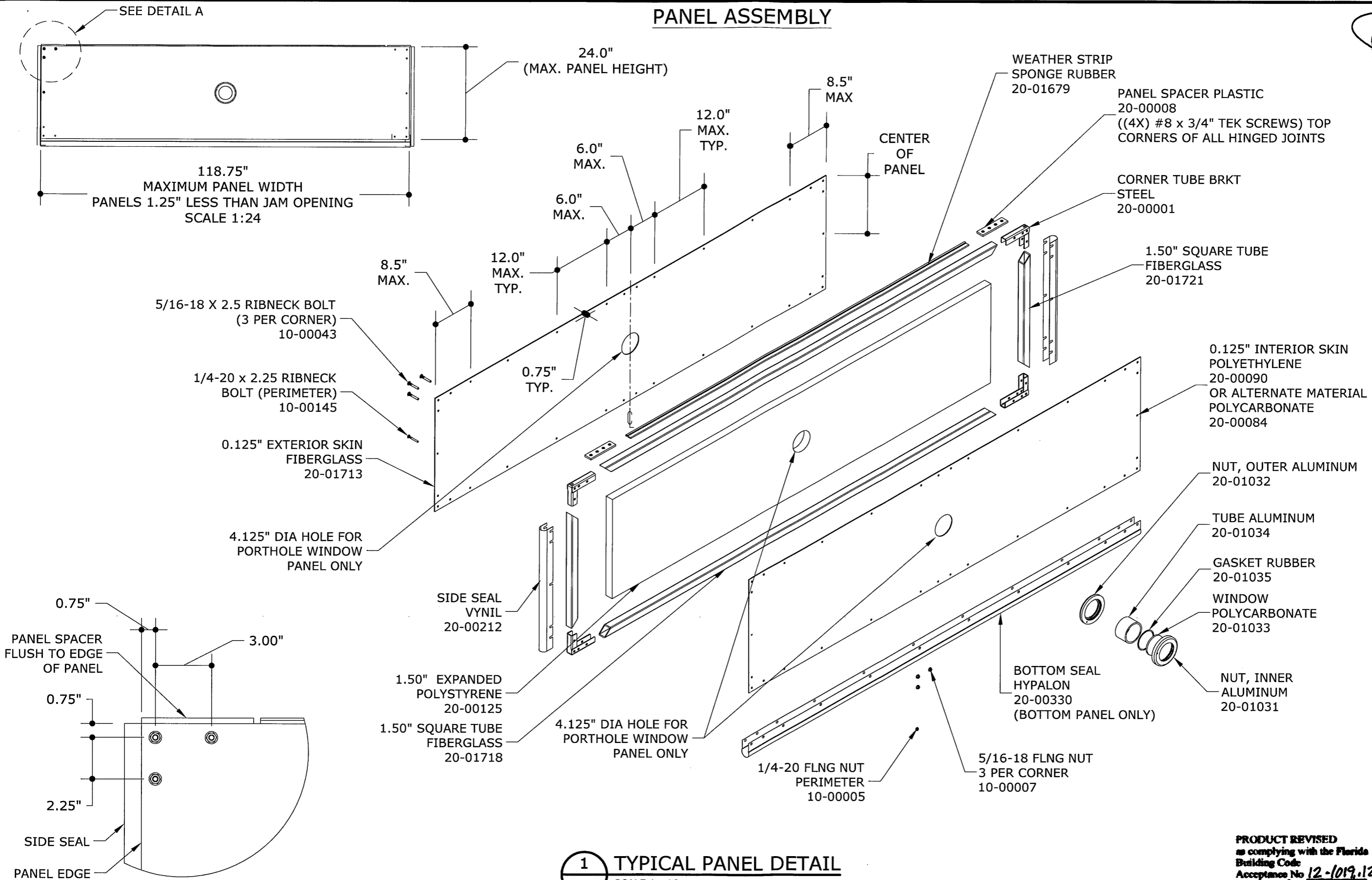
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10/09/2012 - 2:01pm
kelthl



A CORNER DETAIL
SCALE 1 : 5

1 TYPICAL PANEL DETAIL
SCALE 1 : 16

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-1019.12
Expiration Date 09/15/2016
By *[Signature]*
Miami Dade Product Control



TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301

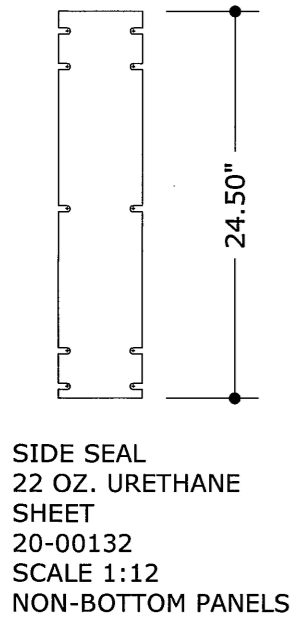
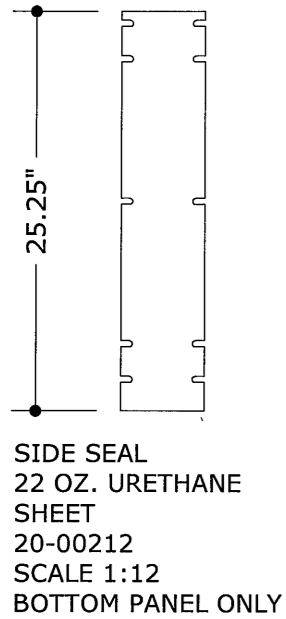
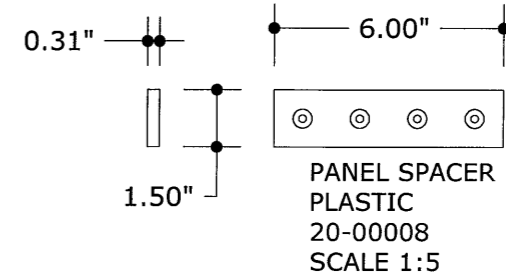
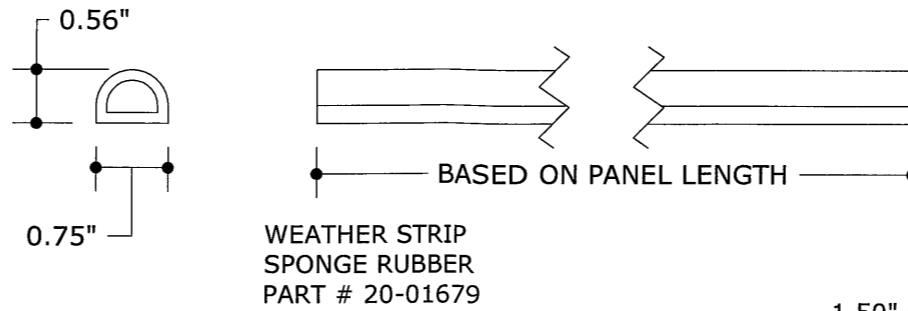
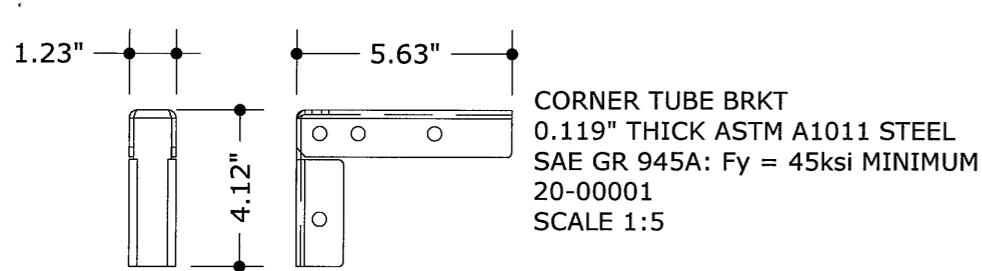
ENGINEERING EXPRESS
160 SW 12th AVENUE, #306
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0444
WWW.ENGINEXP.COM
CERT OF AUTH #9885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

FIBERGLASS DOCK DOORS
CW WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

| REMARKS | DRWN | CHKD | DATE |
|-----------------------|------|------|----------|
| INIT ISSUE | KL | FLB | 04/14/11 |
| REV. PER BNC COMMENTS | KL | FLB | 08/23/11 |
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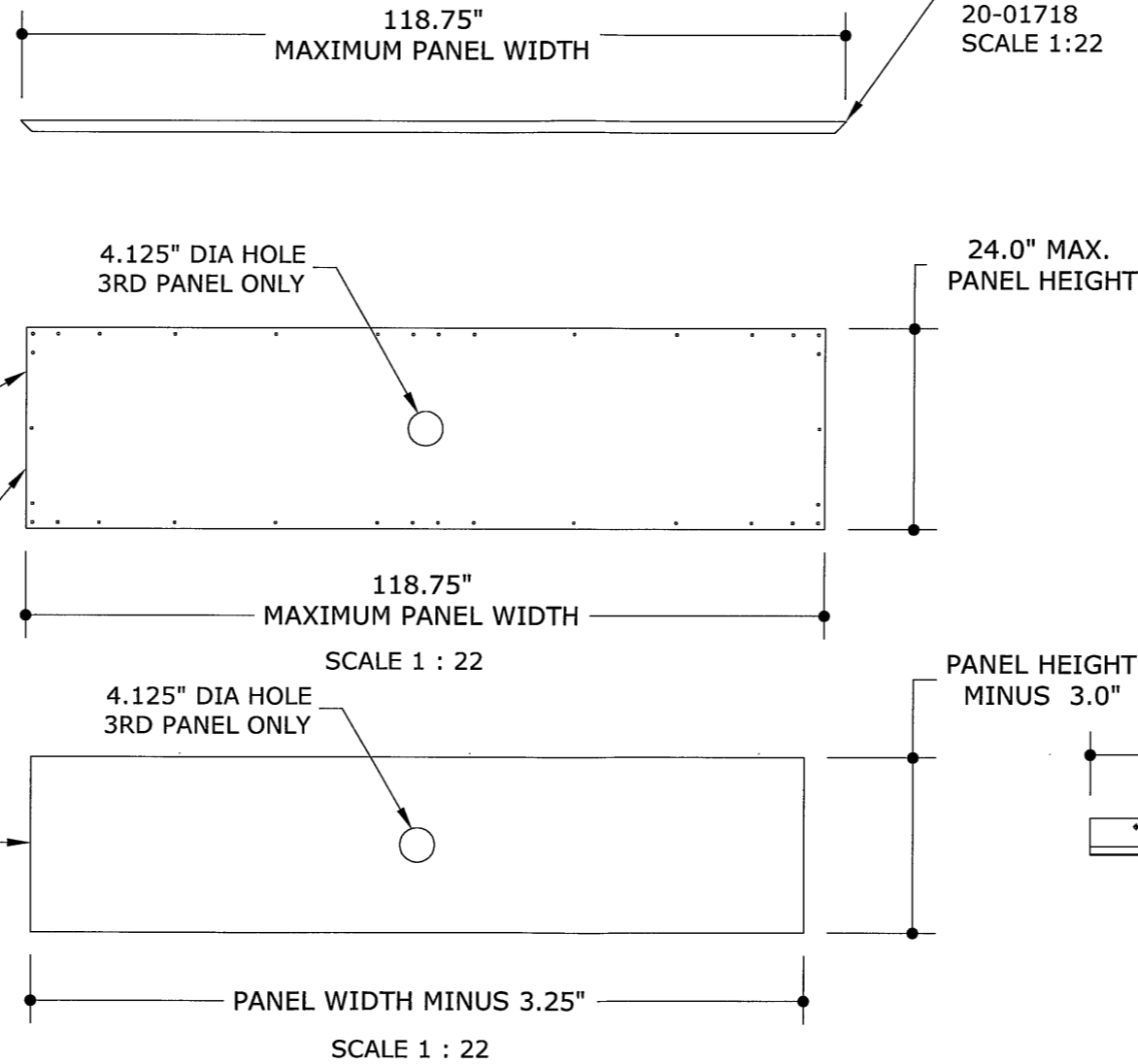
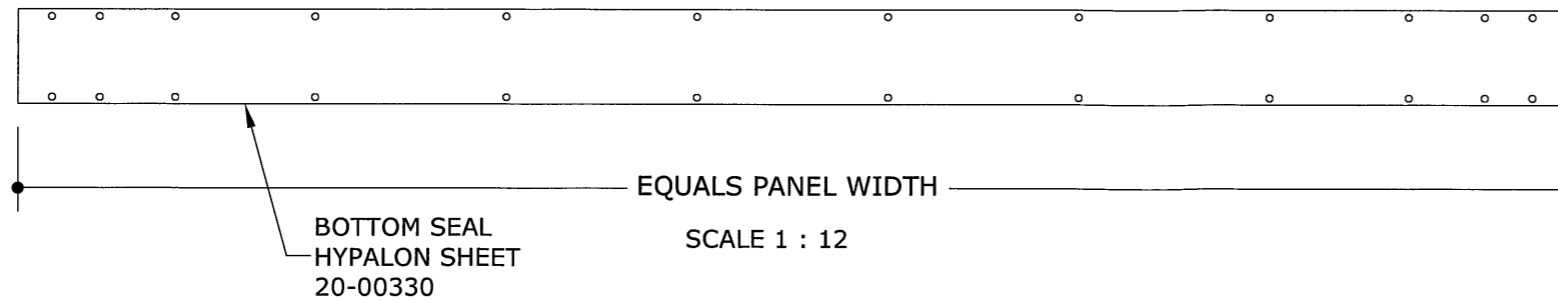
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keithl



0.125" EXTERIOR SKIN
FIBERGLASS
20-01713
0.125" INTERIOR SKIN
POLYETHYLENE
20-00090
OR ALTERNATE MATERIAL
POLYCARBONATE
20-00084

1.50" INSULATION
EXPANDED POLYSTYRENE
20-00125



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-1019.12
Expiration Date 09/15/2016
By
Miami Dade Product Control

FRANK L. BENNARD
ENGINEERING
EXPRESS
160 SW 12th AVENUE, SUITE 1100
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 FAX: (954) 354-0660
WWW.ENGEXP.COM
CERT OF AUTH #9885
A FRANK L. BENNARD, P.E., INC. INNOVATION

TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301
FIBERGLASS DOCK DOORS
CW WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

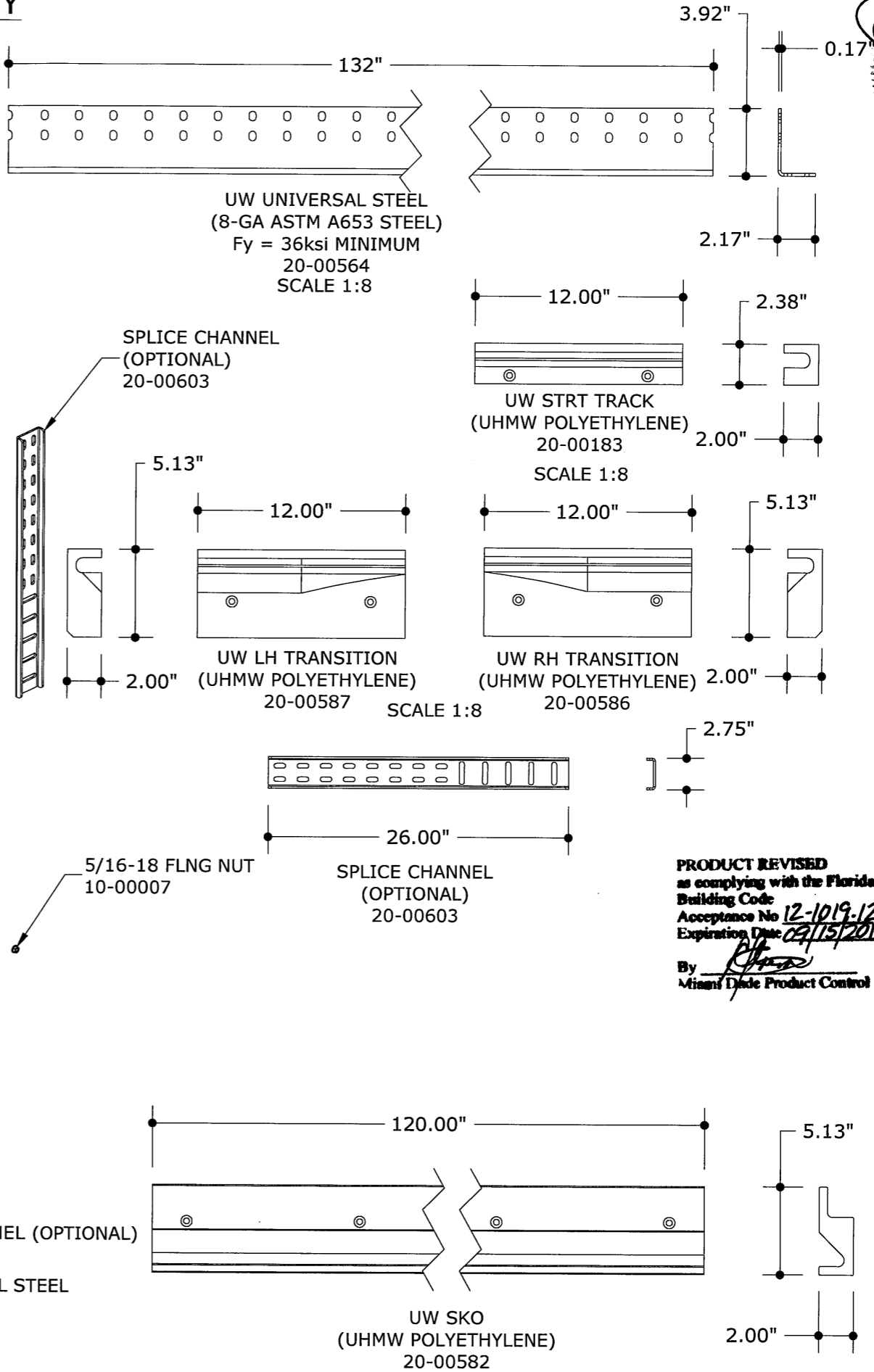
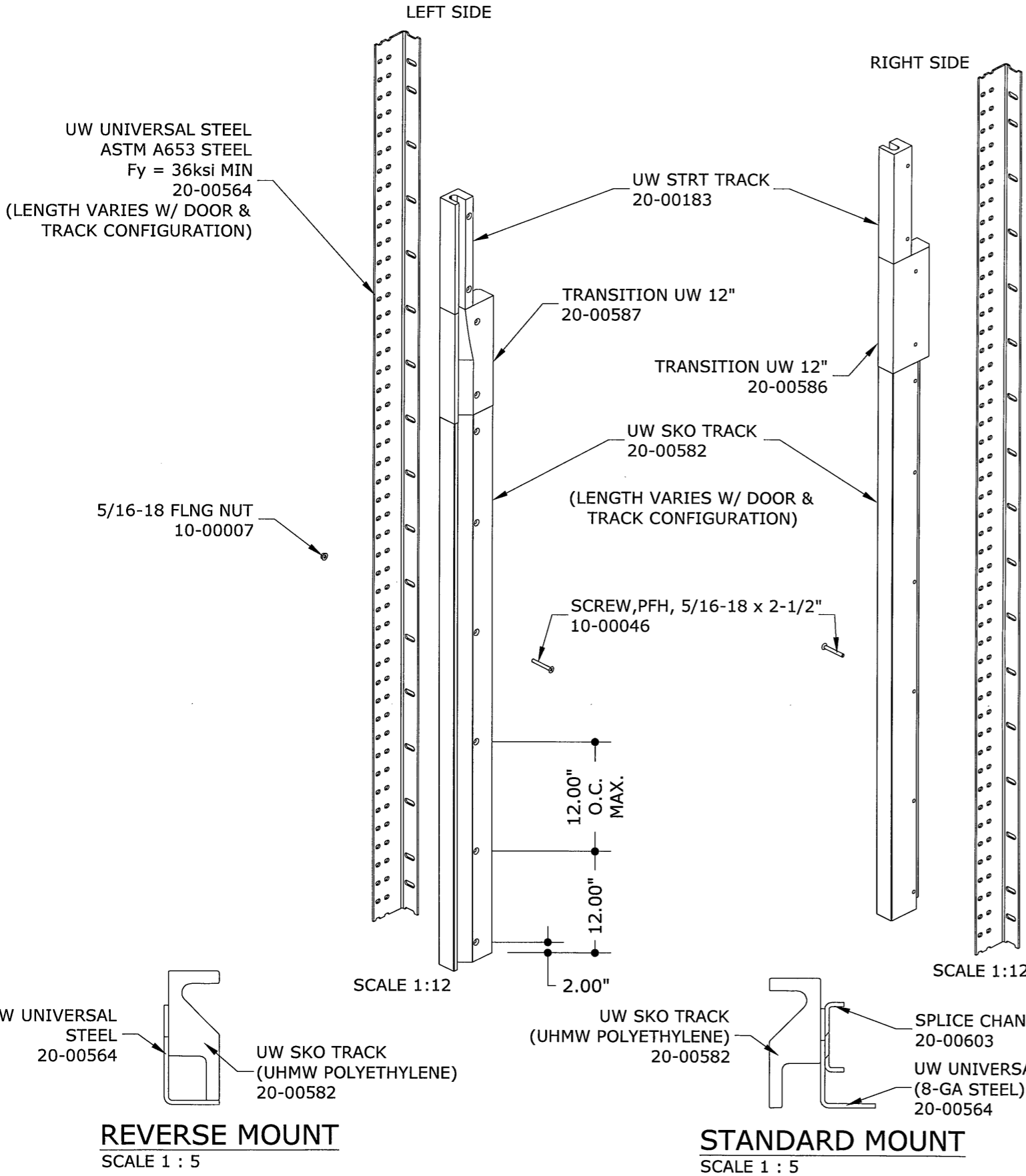
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LOWER TRACK ASSY



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-1019-12
Expiration Date 09/15/2016
By *[Signature]*
Miami Dade Product Control

FRANK L. BENNARDI, P.E.
#P000465
10/09/2012
STATE OF FLORIDA
ENGINEER
160 SW 12th AVENUE, #143
DEERFIELD BEACH, FL 33443
PH: (954) 354-0660 FAX: (954) 354-0661
WWW.ENGEXP.COM
CERT OF AUTH #9885
A FRANK L. BENNARDI, P.E., INC. INNOVATION

TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301
FIBERGLASS DOCK DOORS
CW WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

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11-TKO-0001

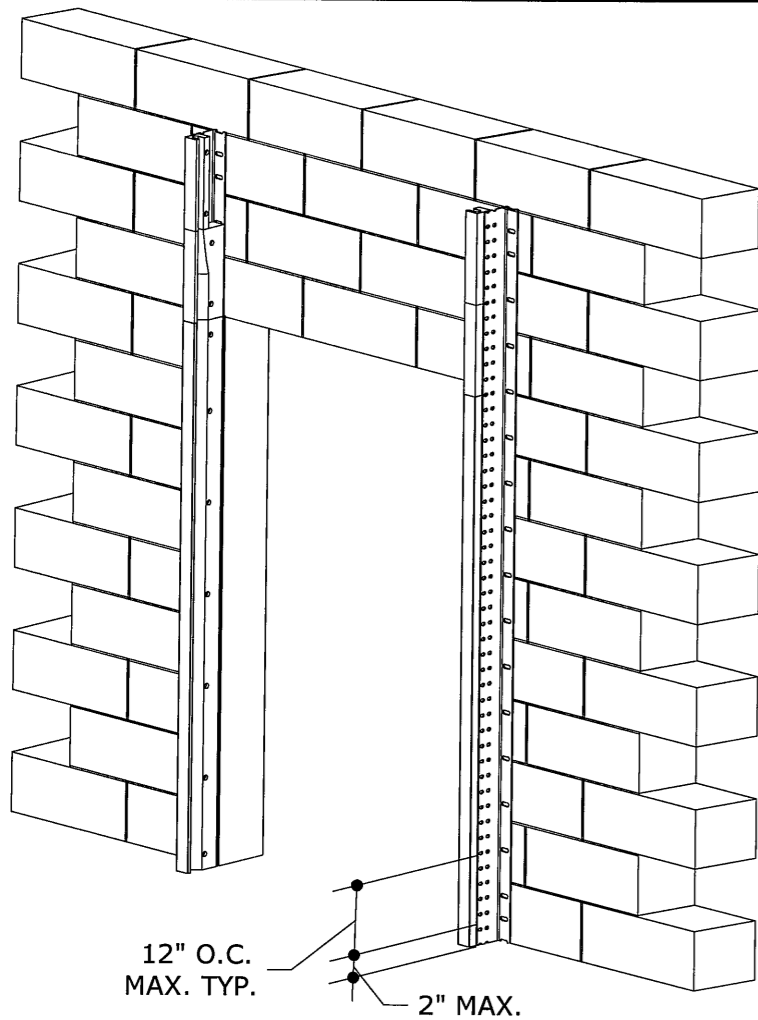
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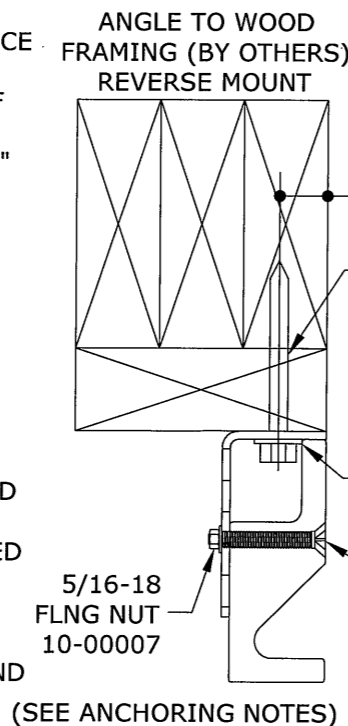


ANCHORING NOTES:

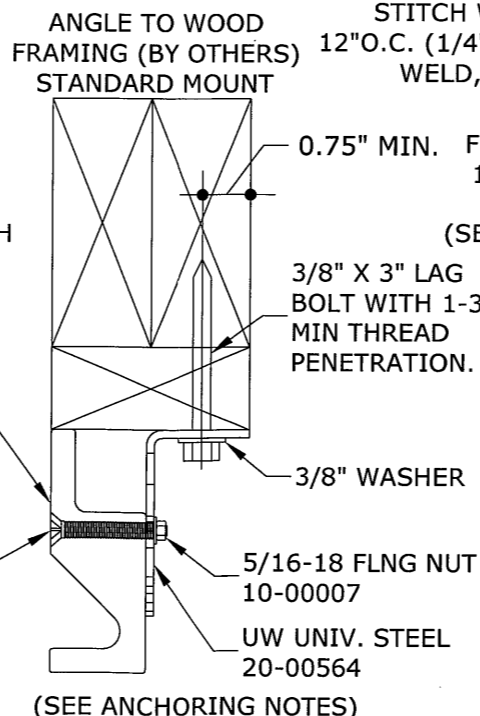
1. THIS SYSTEM SHALL BE ANCHORED WITH ANY OF THE ANCHORING METHODS SHOWN HEREIN, WITH A MINIMUM OF ONE ANCHOR LOCATED 2" MAX. FROM THE BOTTOM OF THE TRACK AND 12" O.C. MAX. THEREAFTER.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
3. WHERE ANCHORS FASTEN TO NARROW FACE 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.

TEST MOUNTING ON WOOD

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-1019.12
Expiration Date 09/15/2016
By *[Signature]*
Miami Dade Product Control

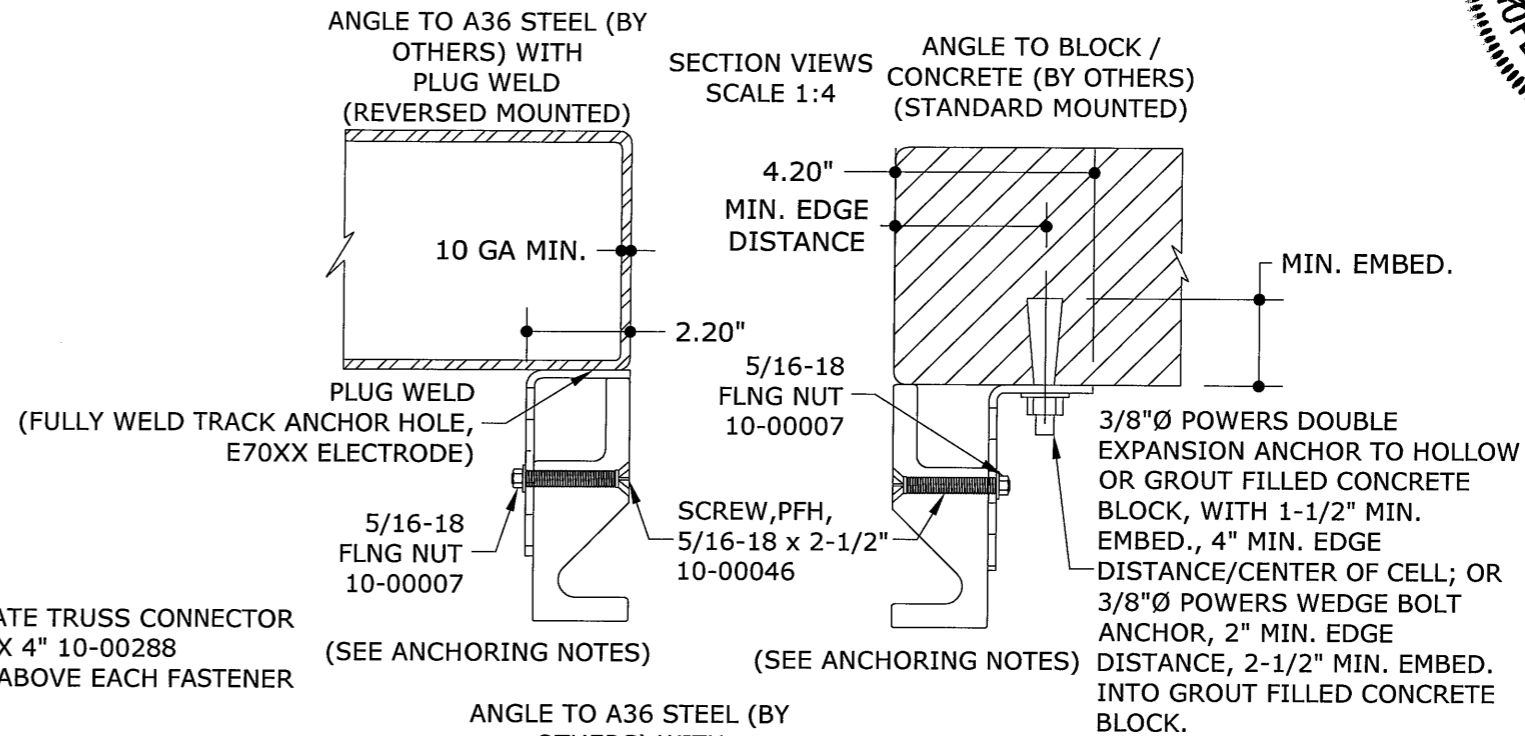


TEST MOUNTING ON WOOD

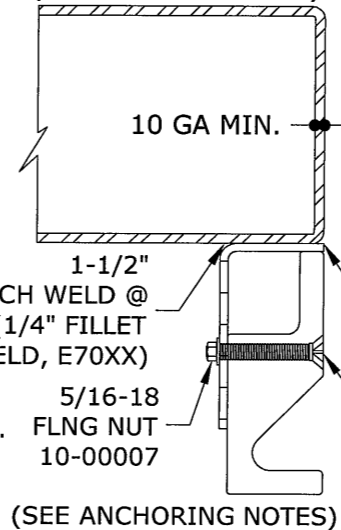


TRACK ANCHOR MOUNTING

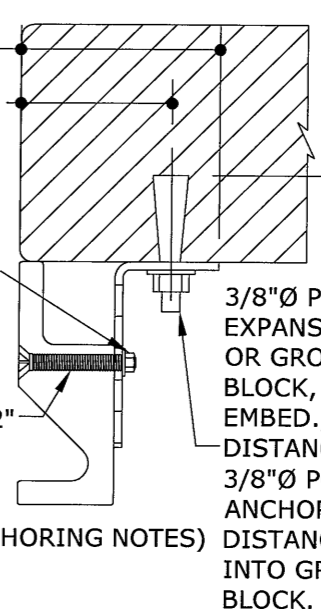
OPTIONAL TRACK ANCHOR DETAILS



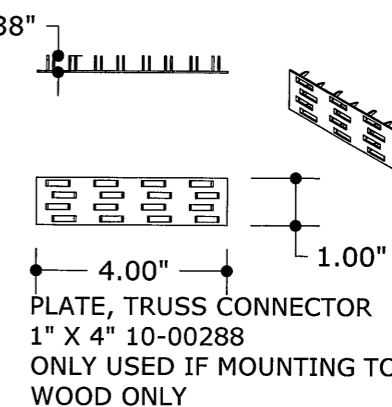
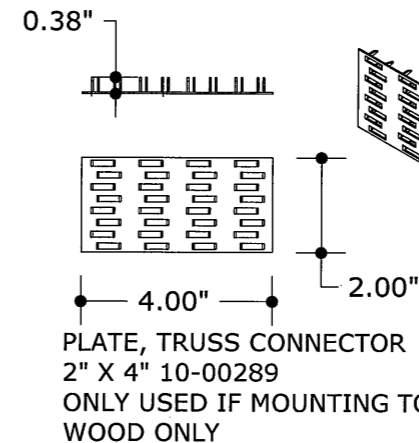
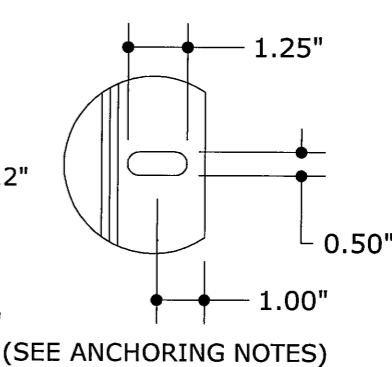
ANGLE TO A36 STEEL (BY OTHERS) WITH STITCH WELD (REVERSED MOUNT)



ANGLE TO BLOCK / CONCRETE (BY OTHERS) (STANDARD MOUNT)



STEEL ANGLE TRACK ANCHOR HOLE



TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.

N56 W24701 NORTH CORPORATE CIRCLE, SUITE A

SUSSEX, WI 53089

PHONE: 1-800-575-3366 FAX: (262) 246-1301

FIBERGLASS DOCK DOORS

CW WL OVERHEAD GARAGE DOOR

MIAMI-DADE NOTICE OF ACCEPTANCE

| REMARKS | DATE | DRWN | CHKD |
|-----------------------|----------|------|------|
| INIT ISSUE | 04/14/11 | KL | FLB |
| REV. PER BNC COMMENTS | 08/23/11 | KL | FLB |
| 2010 PBC | 12/02/11 | KL | FLB |
| NAME CHANGE | 10/09/12 | KL | FLB |

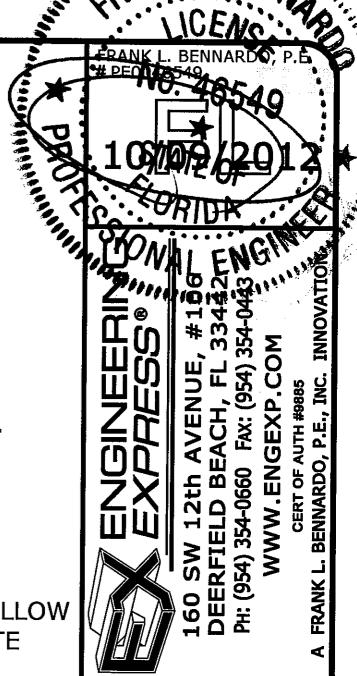
11-TKO-0001

SCALE: 1/4" = 1'-0"

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7



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FASTENER NOTE:
1- FIXED PLUNGERS, HANDLES, AND TPU CABLE BRKTS, ARE MOUNTED TO THE PANELS USING: (3) 5/16-18 X 2-1/2" RIBNECK BOLTS AND (3) 5/16-18 FLANGE NUTS.

2- SPRING PLUNGERS, AND ADAPTER PLATES ARE MOUNTED TO THE PANELS USING: (4) 5/16-18 X 2-1/2" RIBNECK BOLTS, (4) 5/16-18 FLANGE NUTS, AND (2) #10 - 3/4" TEK SCREWS.

3- FABRIC HINGE, AND HINGE STRAP ARE MOUNTED TO THE PANELS USING: (2) 5/16-18 X 2-1/2" RIBNECK BOLTS AND (2) 5/16-18 FLANGE NUTS.

4- PANEL PLATES ARE MOUNTED TO THE PANELS USING: (6) 5/16-18 X 2-1/2" RIBNECK BOLTS, (6) 5/16-18 FLANGE NUTS, (1) 1/4-20 X 2-1/4" RIBNECK BOLT AND (1) 1/4-20 FLANGE NUT.

5- SLIDE LOCKS ARE MOUNTED TO THE PANELS USING: (4) #14 X 3/4" TEK SCREWS.

6- TORQUE REQUIREMENT FOR FASTENERS NOT IN CORNERS RIBNECK 1/4-20 BOLTS MUST BE TORQUED TO 30 +/-5 IN-LB, 5/16-18 BOLTS MUST BE TORQUED TO 45+/-5 IN-LB.

TPU CABLE BRKT
20-00875
"TOP PICK UP
TRACKS ONLY"

TOP PANEL

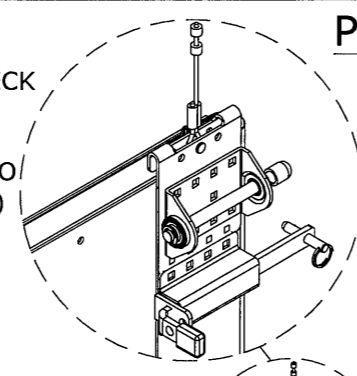
INTERMEDIATE
PANEL (4TH)

WINDOW
PANEL (3RD)

KNOCK OUT LOCK
30-00590

INTERMEDIATE
PANEL (2ND)

BOTTOM
PANEL



PANEL HARDWARE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-1019-12
Expiration Date 09/15/2016
By [Signature]
Miami Dade Product Control

FIXED PLUNGER
30-00676

FIXED PLUNGER
30-00676

PANEL PLATE
20-00644

FABRIC HINGE ASSY
30-00673

FIXED PLUNGER
30-00676

SLIDE LOCK
30-00004
(4x) #10 x 3/4" TEK SCREW

HINGE STRAP
20-00015

SPRING PLUNGER
30-00643

SIDE LOCK
30-00004
(4x) #10 x 3/4" TEK SCREW

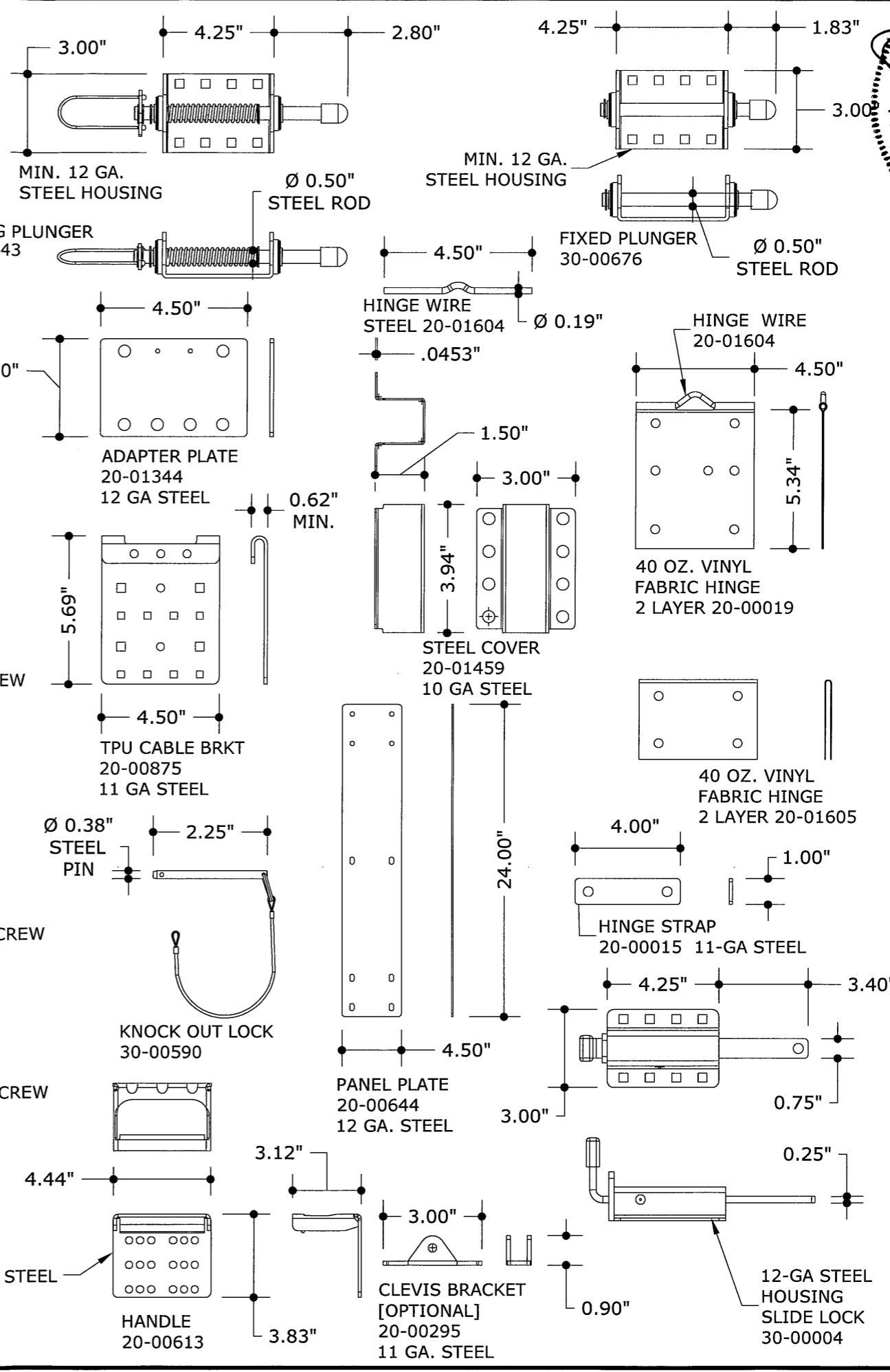
SPRING PLUNGER
30-00643

SIDE LOCK
30-00004
(4x) #10 x 3/4" TEK SCREW

HANDLE
20-00613

SPRING PLUNGER
30-00643

1 INTERIOR ELEVATION
6 SCALE 1 : 16



FRANK L. BENNARDI
P.E., INC.
ENGINEERING
EXPRESS

10/09/2012

STATE OF FLORIDA
160 SW 12th AVENUE, 13th FL
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 FAX: (954) 354-0499
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CERT OF AUTH #9885

TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301

FIBERGLASS DOCK DOORS
CW WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

| REMARKS | DATE | DRWN | CHKD |
|-----------------------|----------|------|------|
| INIT ISSUE | 04/14/11 | KL | FLB |
| REV. PER BNC COMMENTS | 08/23/11 | KL | FLB |
| 2010 FBC | 12/02/11 | KL | FLB |
| NAME CHANGE | 10/09/12 | KL | FLB |

11-TKO-0001

SCALE: **04**

PAGE DESCRIPTION:

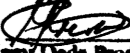
6

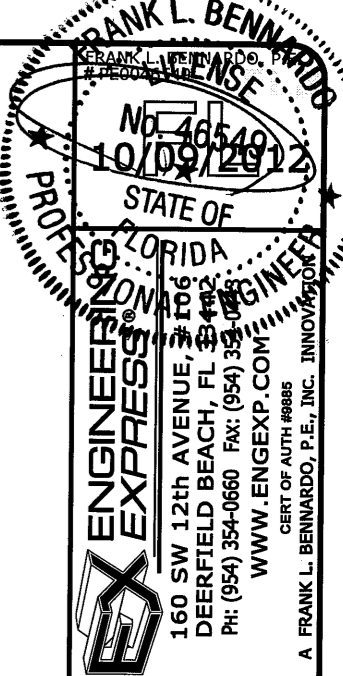
F:\01 Project Files\TKO Dock Doors (TKO)\2011\11-TKO-0001 Fiberglass Dock Doors NOA\11-TKO-0001_04a Fiberglass Dock Doors NOA.dwg 10/09/2012 - 2:02pm keithl

MATERIALS LIST:

| Part Number | Item Description | Manufacturer/Notes | Location |
|------------------|---|----------------------------------|--|
| Panel Components | | | |
| 20-00090 | 0.125" interior skin | Extruded Polyethylene sheet | Front face of all panels |
| 20-00084 | 0.125" interior skin | Polycarbonate sheet | Front face of all panels (alternative material) |
| 20-01713 | 0.125" exterior skin | Pultruded Fiberglass sheet† | Back face of all panels |
| 20-00125 | 1-1/2" insulation | 1lb. density E.P.S. sheet | Inside core of all panels |
| 20-01718 | 1-1/2" SQ x 0.125" wall tube [horizontal] | Pultruded Fiberglass tube | Top/bottom of all panel frames |
| 20-01721 | 1-1/2" SQ x 0.125" wall tube [vertical] | Pultruded Fiberglass tube | Sides of all panels frames |
| 20-00001 | Corner tube bracket | 0.119 steel | Corners of all panel frames |
| 20-00008 | Panel spacer | HMPE plastic | Top corners of all panels forming panel joint |
| 20-01679 | "D" profile weather stripping | Sponge rubber | Top of all panels forming panel joint |
| 20-00132 | Panel Side seal | 22 oz. Vinyl | Sides of all non- bottom panel frames |
| 20-00212 | Bottom Panel Side seal | 22 oz. Vinyl | Sides of all bottom panel frames |
| 20-00330 | Bottom seal | 35 oz. Hypalon | Bottom panel |
| Panel Hardware | | | |
| 30-00676 | FIXED plunger assembly | TKO Doors (steel) | 1 at each upper corner of 3rd panel & above |
| 20-01459 | Plunger Covers | TKO Doors (steel) | 1 each per plunger |
| 30-00589 | 4" Porthole Assembly | TKO Doors | 1 in center of 3rd panel |
| 20-00644 | Panel Plate | Galv 12-ga steel | Sides of all panels |
| 30-00673 | Fabric Hinge Assembly | 40 oz. Vinyl polyester (2 layer) | Top corners of all panels forming panel joint |
| 20-01605 | Fabric Center hinge | 40 oz. Vinyl polyester (2 layer) | Top center of all panels forming panel joint |
| 20-00015 | Hinge strap | TKO Doors (steel) | 1 each for corner hinges 2 each for center hinges |
| 20-01604 | Hinge Wire | TKO Doors (steel) | 1 each per corner hinges 30-00673 |
| 30-00643 | SPRING plunger assembly | TKO Doors (steel) [6 per door] | 1 at each upper/lower corner of bottom panel & 1 at each upper corner on 2nd panel |
| 20-01344 | Plate, Adapter | Galv. 12 ga. Steel | Under each Spring Plunger 30-00643 except where handles 20-00613 are located |
| 30-00004 | Slide lock assembly | TKO Doors (steel) [4 per panel] | 2 each on each end centered on panel |
| 30-00590 | Knock Out Lock, Windload | TKO Doors (steel) | 1 per slide lock. (out hole of engaged lock) |
| 20-00613 | Handle | TKO Doors (steel) | Lower corners of bottom panel & |
| 20-00875 | TPU cable bracket (optional) | TKO Doors (steel) | Top corners of top panel |
| 20-00295 | Bracket, Clevis [optional] | TKO Doors[steel] | Cable Attachment Point [varies] |
| 20-01609 | Panel seal | 40 oz. Vinyl polyester | Between all panels forming panel joint (2 per) |
| Track Hardware | | | |
| 20-00582 | UW SKO track (length varies with door size) | UHMWPE* | Lower track |
| 20-00586 | UW 12" transition, R.H. | UHMWPE* | Lower track |
| 20-00587 | UW 12" transition, L.H. | UHMWPE* | Lower track |
| 20-00183 | UW strt track (length varies with door size) | UHMWPE* | Upper track |
| 20-00603 | Splice Channel (optional based on upper track) | Galv 8-ga steel | Lower track |
| 20-00564 | UW universal steel (length varies with door size) | Galv 8-ga steel | Lower track |
| Fasteners | | | |
| 10-00043 | 5/16-18 x 2-1/2" ribneck bolt | ***** | 4 per panel corner (12 per panel) |
| 10-00007 | 5/16-18 flange nut | ***** | 4 per panel corner (12 per panel) |
| 10-00145 | 1/4-20 x 2-1/4" ribneck bolt | ***** | 1 per vertical panel edge (centered) & min 12" O.C. per horizontal edge |
| 10-00065 | 1/4 Washer | ***** | 1 per vertical panel edge (centered) & min 12" O.C. per horizontal edge |
| 10-00005 | 1/4-20 flange nut | ***** | 1 per vertical panel edge (centered) & min 12" O.C. per horizontal edge |
| 10-00061 | #8 x 3/4" tek screw | ***** | 2 per panel spacer |
| 10-00062 | #14 x 3/4" tek screw | ***** | 4 per slide lock assembly, 2 per Spring Plungers where applicable |
| 10-00046 | 5/16-18 X 2-1/2" PFH screw | ***** | Min 12" O.C. per track length |
| 10-00007 | 5/16-18 flange nut | ***** | Min 12" O.C. per track length |
| 10-00288 | Plate, Truss, Connector 1" x 4" | ***** | 1" above each fastener in lower track |
| 10-00289 | Plate, Truss, Connector 2" x 4" | ***** | Aligned with the bottom edge of lower track mounting surface |

†MANUFACTURED BY BEDFORD REINFORCED PLASTICS, INC.
*ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE

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11-TKO-0001
SCALE: 1/4" = 1'-0"
PAGE DESCRIPTION: