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

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Quality Engineered Products Co., Inc.
4506 Quality Lane
Tampa, FL 33634

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: Series "HMF" 16 ga or 14 ga Outswing Full Louvered Commercial Steel Door-Impact

APPROVAL DOCUMENT: Drawing No. **QEP005**, titled "Full Louvered Steel Doors", sheets 1 through 7 of 7, prepared by manufacturer, dated 01/31/18, signed and sealed by Cody Davis, 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

Limitations:

1. Not approved where Air & Water infiltration is needed.
2. Doors are 16 ga (min .063" thk) with min CS Tensile yield strength Fy= 46.3 ksi and Tensile ultimate strength Fu= 52.1 Ksi and SS Tensile yield strength Fy= 50.5 ksi and Tensile ultimate strength Fu= 98.5 Ksi

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

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 # 17-1102.09** and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

8/21/19

NOA No. 19-0731.04
Expiration Date: October 28, 2024
Approval Date: August 22, 2019

Quality Engineered Products Co, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence previously submitted

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files below)
2. Drawing No. **QEP005**, titled "Full Louvered Steel Door", sheets 1 through 7 of 7, prepared by manufacturer, dated 02/26/16, with Revision 1 dated 02/26/16, signed and sealed by Cody Davis, P. E.

B. TESTS (Submitted under files **#15-0422.11/#14-1015.05/#09-0812.17/ #04-0823.03)**

1. Test reports on 1) Air Infiltration Test, per FBC TAS 202-94 (Not Performed)
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202.
   3) Water Resistance Test per FBC TAS 202-94 (Not Performed).
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC and TAS 202-94

Along with marked-up drawings and installation diagram of double Outswing full louvered Commercial Steel Doors, prepared by Certified Testing Laboratories Inc., Test Report No. **CTLA 1255-W-R,** w/ revision dated September 14, 2004 (original test report dated July 28, 2004), signed and sealed by Ramesh Patel, P. E.)

Along with marked-up drawings and installation diagram of double Outswing Flush Steel Doors, prepared by Certified Testing Laboratories Inc., Test Report No. **CTLA 1998W,** dated 04/06/10, signed and sealed by Ramesh Patel, P. E.

C. CALCULATIONS

1. Anchor verification calculations, dated 05/17/16, prepared, signed and sealed Cody Davis, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Tensile test report prepared by Certified Testing Laboratories Inc., Test Report No. **CTL 1023J (CTLA114W),** tested per ASTM E-A370-97, dated December 02,2003, signed and sealed by Ramesh Patel, P. E. (Submitted under file # **09-0812.17)**
2. Tensile test report prepared by Certified Testing Laboratories Inc., Test Report No. **CTL 0638K (CTLA1255W),** tested per ASTM E-A370-97, dated 09/13/04, signed and sealed by Ramesh Patel, P. E.
3. Notice of Acceptance No. **11-0926.07** issued to Dyplastic Products, LLC (former Apache Products Co) for "EPS-Expanded Polystyrene Insulation", expiring on 01/11/2017.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC–2014, 5th edition and "No financial interest", issued, prepared, signed, sealed and dated 05/31/16 by Cody Davis, P. E.
2. Statement letter dated 05/31/16 of successor engineer adopting as his own, another engineer's work per FAC, Rule Chapter 61G15-27, issued by Master Consulting Engineers, Inc., both signed and sealed by Cody Davis, P. E.

G. OTHER

1. This **revises & renews NOA # 14-1015.05,** expiring October 28, 2019.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0731.04
Expiration Date: October 28, 2024
Approval Date: August 22, 2019

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under previous file # 17-1102.09.

A. DRAWINGS

1. Drawing No. **QEP005**, titled "Full Louvered Steel Doors", sheets 1 through 7 of 7, prepared by manufacturer, dated 01/31/18, signed and sealed by Cody Davis, P. E.

B. Test

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-1207.05** issued to Dyplastic Products, LLC (former Apache Products Co) for "E& R-Board Expanded Polystyrene rigid Foam Insulation", expiring on 01/11/2022.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (**6th** Edition), dated 12/01/17 , prepared by Master Consulting Engineer Inc., signed and sealed by Cody Davis, P. E.

G. OTHER

1. This NOA **revises # 15-0422.10**, expiring 12/30/19.

3. New Evidence submitted.

A. DRAWINGS

1. Drawing No. **QEP005**, titled "Full Louvered Steel Doors", sheets 1 through 7 of 7, prepared by manufacturer, dated 01/31/18, signed and sealed by Cody Davis, P. E.(submitted under file# **17-1102.09).**

B. Test

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-1207.05** issued to Dyplastic Products, LLC (former Apache Products Co) for "E& R-Board Expanded Polystyrene rigid Foam Insulation", expiring on 01/11/2022.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (**6th** Edition), dated 12/01/17 , prepared by Master Consulting Engineer Inc., signed and sealed by Cody Davis, P. E. (submitted under file# **17-1102.09**).

G. OTHER

1. This NOA **revises # # 17-1102.09**, expiring 12/30/19.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0731.04
Expiration Date: October 28, 2024
Approval Date: August 22, 2019

QUALITY ENGINEERED PRODUCTS

FULL LOUVERED COMMERCIAL STEEL DOOR (OUTSWING)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER (ALUMINUM OR SS).
5. FOR JAMB INSTALLATION INTO WOOD FRAMING USE 3/8 INCH DIAMETER WOOD LAG SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 2 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. WOOD LAG SCREWS TO BE USED IN 3/4 INCH EMT PIPE SLEEVE.
6. FOR JAMB INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/8 INCH DIAMETER DYNABOLT SLEEVE ANCHOR BY ITW/REDHEAD OF SUFFICIENT LENGTH TO ACHIEVE 2 3/8 INCH MINIMUM EMBEDMENT.
7. FOR INSTALLATION INTO STRUCTURAL STEEL, USE 3/8"Ø SCREW THRU EMT PIPE SLEEVE CONFORMING TO SAE GRADE 2 OR EQUAL. MINIMUN MATERIAL THICKNESS = 3/8" THICK CONFORMING TO A36 STEEL.
8. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
9. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
10. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
11. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
12. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
    A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
    B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
    C. GROUTED MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, NORMAL WEIGHT w/ 2 KSI STRENGTH. GROUT SHALL BE MIN. 3000 PSI.
    D. STRUCTURAL STEEL- MEMBER TO COMPLY WITH AISC 360. ADEQUACY OF METAL STRUCTURE TO BE REVIEWED BY BUILDING OFFICIAL.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE FBC 6TH EDITION (2017), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING: TAS 201-94/TAS 202-94 (STRUCTURAL ONLY)/TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE, MASONRY, STRUCTURAL STEEL AND 2X FRAMING AS A HVHZ-ZONE CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF THE PROJECT OF INSTALLATION.
4. RECORD FOR THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. THIS PRODUCT IS LARGE AND SMALL MISSILE IMPACT RESISTANT. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. DOOR AND DOOR FRAME MATERIAL: 16 GA. OR 14 GA. STEEL MEETING FyMIN=46.3KSI; FuMIN=52.1KSI OR STAINLESS STEEL FyMIN=50.5 KSI; FuMIN=98.5KSI. MIL-CERTIFICATE REQUIRED FOR VERIFICATION OF AVAILABLE STRENGTH.
7. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
   X: OPERABLE PANEL
   O: FIXED PANEL

TABLE OF CONTENTS

SHEET	REVISION	SHEET DESCRIPTION
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2	-	ELEVATIONS & DETAILS
3	-	ANCHOR LAYOUTS
4	-	VERTICAL SECTIONS & DETAILS
5	-	VERTICAL SECTIONS & DETAILS
6	-	HORIZONTAL SECTION, BILL OF MATERIALS & DETAILS
7	-	DETAILS

DESIGN PRESSURE RATING (OUTSWING DOORS WITH LOUVERS)

	WHERE AIR AND WATER FILTRATION REQUIREMENT IS NOT NEEDED	WHERE AIR AND WATER FILTRATION REQUIREMENT IS NEEDED	MISSILE IMPACT RATING
POSITIVE	+70.0 PSF	NOT APPROVED	LARGE AND SMALL IMPACT RATED
NEGATIVE	-70.0 PSF	NOT APPROVED	LARGE AND SMALL IMPACT RATED

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 19-0731.04
Expiration Date OCT 25, 2024
By [signature]
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-1102.09
Expiration Date OCT 25, 2019
By [signature]
Miami Dade Product Control

Quality Engineered Products Co., Inc.
4506 QUALITY LN.
TAMPA, FL. 33634
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: FULL LOUVERED STEEL DOOR INSTALLATION & GENERAL NOTES

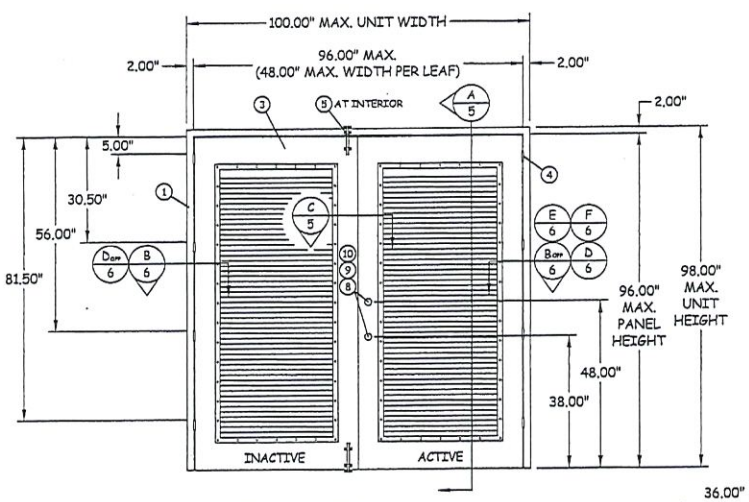
PREPARED BY:
Quality Engineering Products, INC,
4506 Quality Lane
Tampa, Fl, FL 33684
PH: (813) 885-1693 FX: (813) 644-2366

REVISIONS

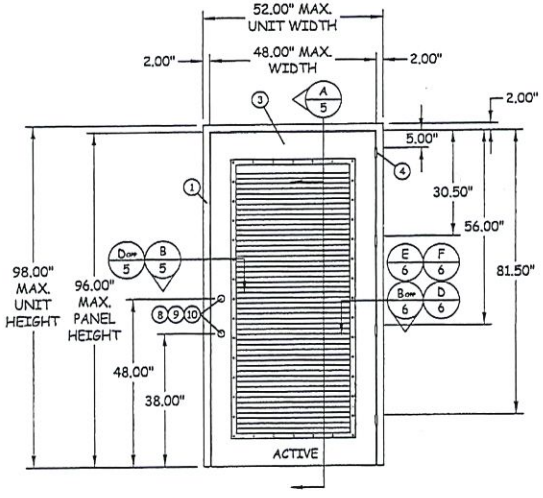
NO.	DESCRIPTION	BY	DATE
1	2014 FBC	CD	02.26.16

CODY DAVIS LICENSE No. 75154 STATE OF FLORIDA 1-31-18 PROFESSIONAL ENGINEER CODY DAVIS P.E. No. 75154 FLORIDA LIC.

DATE: 02.26.16
DWN BY: JLR
CHK BY: CCD
SCALE: NTS
DWG #: QEP005
SHEET: 1 OF 7



EXTERIOR ELEVATION
OUTSWING DOOR



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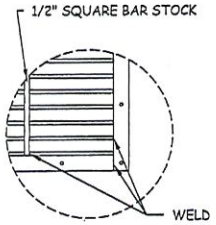
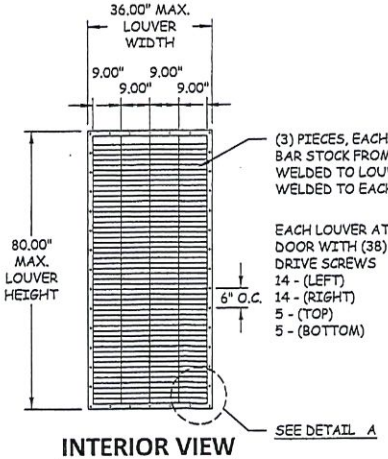


DETAIL A



INTERIOR VIEW
LOUVER

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 19-0731.04
Expiration Date 10/26/2024
By
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-1102.09
Expiration Date 10/26/19
By
Miami-Dade Product Control

Quality Engineered Products Co., Inc.
4506 QUALITY LN.
TAMPA, FL. 33634
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: FULL LOUVERED STEEL DOOR ELEVATIONS & DETAILS

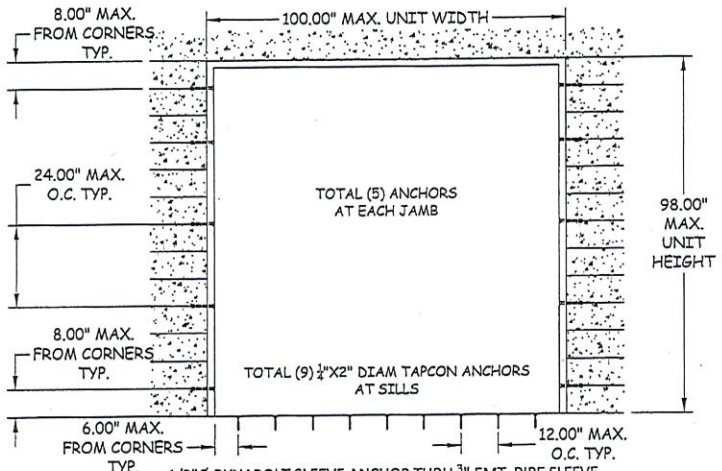
PREPARED BY:
Quality Engineering Products, INC,
4506 Quality Lane
Tampa, Fl, FL 33684
PH: (813) 885-1693 FX: (813) 644-2366

REVISIONS

NO.	DESCRIPTION	BY	DATE
1	2014 FBC	CD	02.26.16

COURTNEY DAVIS, P.E.
LICENSE
No. 75154
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
COURTNEY DAVIS, P.E.
FLORIDA LIC. NO. 75154

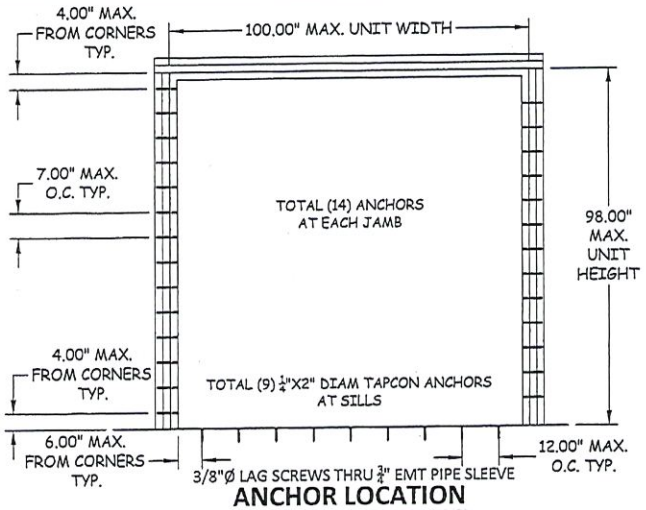
DATE: 02.26.16
DWN BY: JLR
CHK BY: CCD
SCALE: NTS
DWG #: QEP005
SHEET: 2 OF 7



1/2"Ø DYNABOLT SLEEVE ANCHOR THRU ¾" EMT PIPE SLEEVE

ANCHOR LOCATION

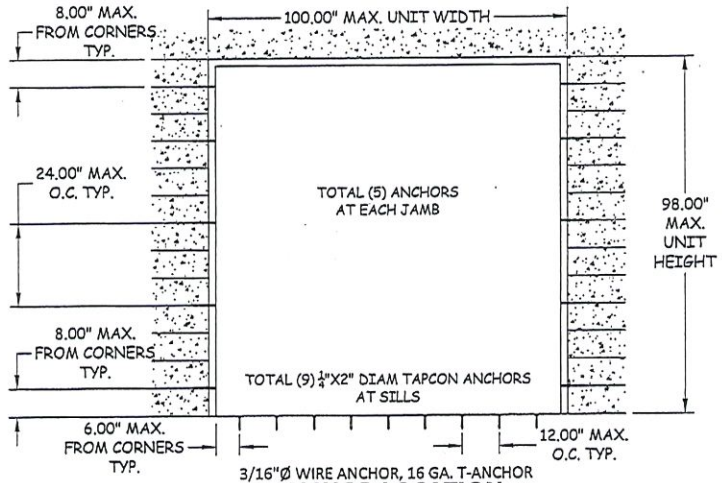
INSTALLATION INTO MASONRY (GROUT FILLED BLOCKS) OR CONCRETE



3/8"Ø LAG SCREWS THRU ¾" EMT PIPE SLEEVE

ANCHOR LOCATION

INSTALLATION INTO WOOD STRUCTURE

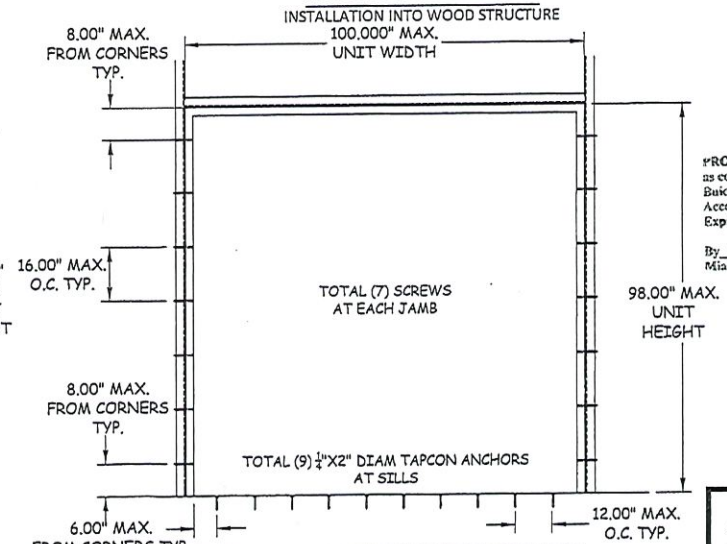


3/16"Ø WIRE ANCHOR, 16 GA. T-ANCHOR

ANCHOR LOCATION

INSTALLATION INTO MASONRY (GROUT FILLED BLOCKS)

ANCHORS FOR DOUBLE 100"W X 98"H UNITS
OR
ANCHORS FOR SINGLE 52"W X 98"H UNITS



⅜"Ø SELF-DRILLING SCREWS THRU ¾" EMT PIPE SLEEVE

ANCHOR LOCATION

INSTALLATION INTO STRUCTURAL STEEL

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 15-0731.04
Expiration Date 10/28/24
By Ishaq I. Chaudhry
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-1102.69
Expiration Date 10/25/19
By Ishaq I. Chaudhry
Miami Dade Product Control

Quality Engineered Products Co., Inc.
4506 QUALITY LN.
TAMPA, FL. 33634
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: FULL LOUVERED STEEL DOOR ANCHOR LAYOUTS

PREPARED BY:
Quality Engineering Products, INC, 4506 Quality Lane
Tampa, Fl, FL 33684
PH: (813) 885-1693 FX: (813) 644-2366

REVISIONS

NO.	DESCRIPTION	BY	DATE
	2014 FBC	CD	02.26.16

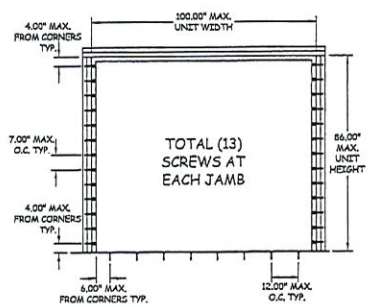
CODY DAVIS LICENSE No. 75154 STATE OF FLORIDA 1/31/18 PROFESSIONAL ENGINEER

CODY DAVIS, P.E.
FLORIDA LIC. # 75154

DATE:	DWN BY:	CHK BY:	SCALE:
02.26.16	JLR	CCD	NTS

DWG #: QEP005

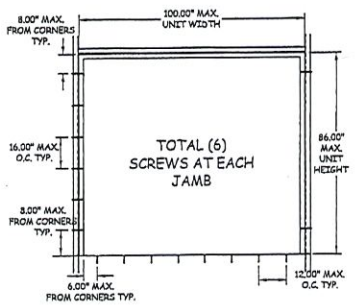
SHEET: 3 OF 7



$\frac{3}{8}$" DIA. LAG SCREWS
THRU $\frac{3}{4}$" EMT PIPE SLEEVE

ANCHOR LOCATION

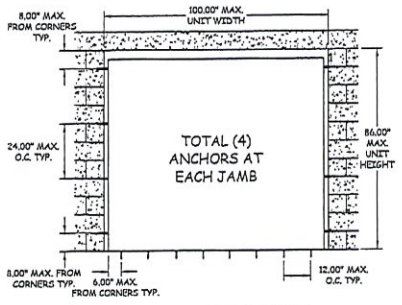
INSTALLATION INTO WOOD STRUCTURE



$\frac{3}{8}$" DIA SELF DRILLING SCREWS
THRU $\frac{3}{4}$" EMT PIPE SLEEVE

ANCHOR LOCATION

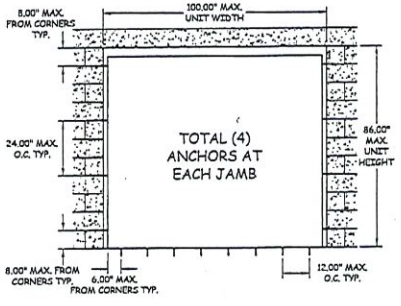
INSTALLATION INTO STRUCTURAL STEEL



DYNABOLT SLEEVE ANCHOR
THRU $\frac{3}{4}$" EMT PIPE SLEEVE

ANCHOR LOCATION

INSTALLATION INTO EXIST. MASONRY (GROUT FILLED BLOCKS) OR CONCRETE

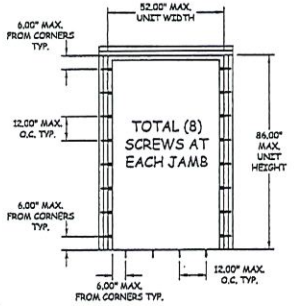


$\frac{3}{16}$"Ø WIRE ANCHOR OR 16 GA. T-ANCHOR

ANCHOR LOCATION

INSTALLATION INTO EXIST. MASONRY (GROUT FILLED BLOCKS)

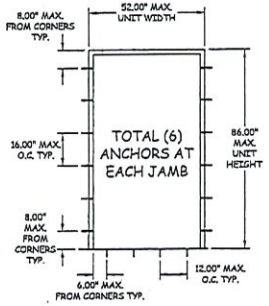
ANCHORS FOR DOUBLE 100"W X 98"H UNITS



$\frac{3}{8}$" DIA. LAG SCREWS
THRU $\frac{3}{4}$" EMT PIPE SLEEVE

ANCHOR LOCATION

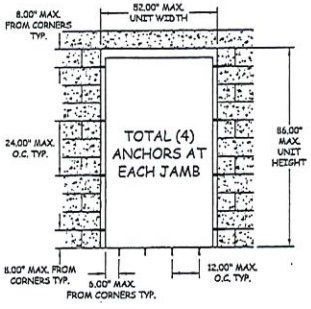
INSTALLATION INTO WOOD STRUCTURE



$\frac{3}{8}$" DIA SELF DRILLING SCREWS
THRU $\frac{3}{4}$" EMT PIPE SLEEVE

ANCHOR LOCATION

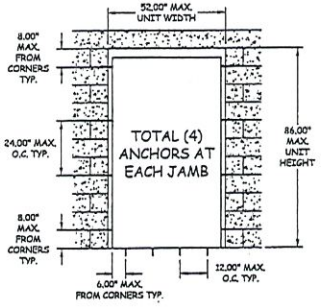
INSTALLATION INTO STRUCTURAL STEEL



DYNABOLT SLEEVE ANCHOR
THRU $\frac{3}{4}$" EMT PIPE SLEEVE

ANCHOR LOCATION

INSTALLATION INTO EXIST. MASONRY (GROUT FILLED BLOCKS) OR CONCRETE



$\frac{3}{16}$"Ø WIRE ANCHOR OR 16 GA. T-ANCHOR

ANCHOR LOCATION

INSTALLATION INTO EXIST. MASONRY (GROUT FILLED BLOCKS)

ANCHORS FOR SINGLE 52"W X 86"H UNITS

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 19-0731.04
Expiration Date 10/28/24
By Ishwar L. Chandra
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-1102.69
Expiration Date 10/28/19
& Ishwar L. Chandra
Miami Dade Product Control

Quality Engineered Products Co., Inc.
4506 QUALITY LN.
TAMPA, FL. 33634
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: FULL LOUVERED STEEL DOOR VERTICAL SECTIONS & DETAILS

PREPARED BY: Quality Engineering Products, INC, 4506 Quality Lane Tampa, Fl, FL 33684
PH: (813) 885-1693 FX: (813) 644-2366

REVISIONS

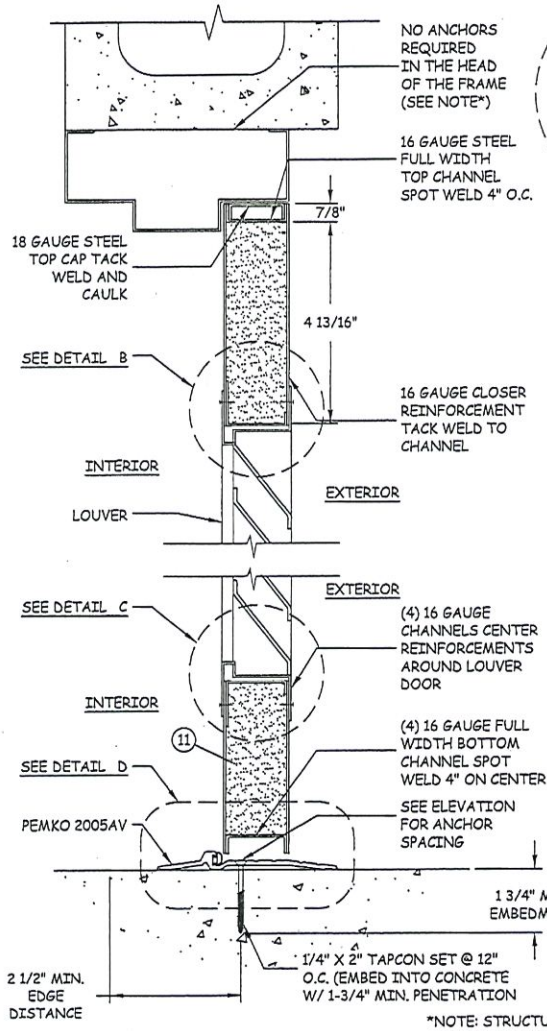
NO.	DESCRIPTION	BY	DATE
1	2014 FBC	CD	02.26.16

CODY DAVIS LICENSE No. 75154 STATE OF FLORIDA PROFESSIONAL ENGINEER
CODY DAVIS, P.E. FLORIDA LIC. # 75154

DATE: 02.26.16	DWN BY: JLR	CHK BY: CCD	SCALE: NTS

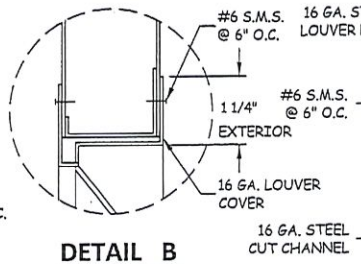
DWG #: QEP005

SHEET: 4 OF 7

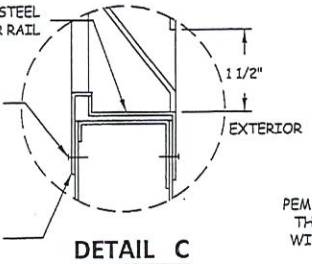


A/5 **VERTICAL SECTION**
CONCRETE/MASONRY

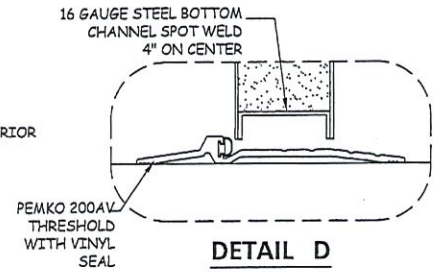
*NOTE: STRUCTURAL MEMBER AT HEADER MUST DESIGN TO CARRY 179 #/FT LOAD AND MUST BE REVIEWED BY BUILDING OFFICIAL



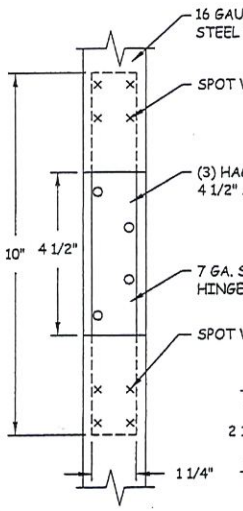
DETAIL B



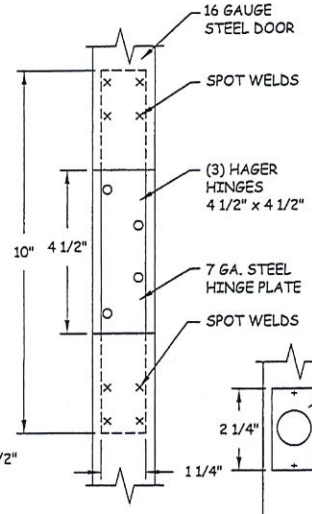
DETAIL C



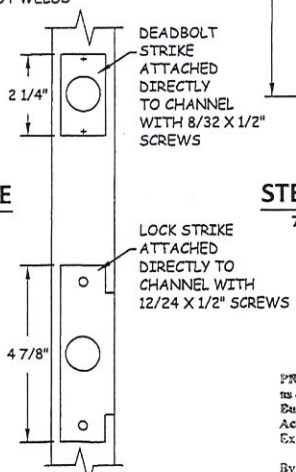
DETAIL D



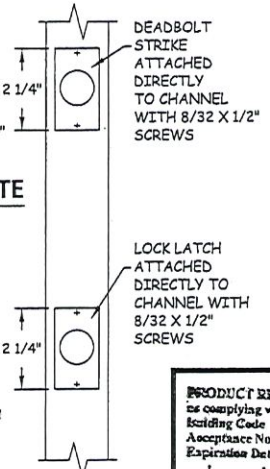
STEEL HINGE PLATE
7 GAUGE X 1-1/4" X 10"



STEEL HINGE PLATE
7 GAUGE X 1-1/4" X 10"



INACTIVE DOOR



ACTIVE DOOR

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 19-6731.04
Expiration Date 10/28/24
By Ishaq I. Chanda
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-1102.09
Expiration Date 10/28/19
By Ishaq I. Chanda
Miami Dade Product Control

Quality Engineered Products Co., Inc.
4506 QUALITY LN.
TAMPA, FL. 33634
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: FULL LOUVERED STEEL DOOR VERTICAL SECTIONS & DETAILS

PREPARED BY: Quality Engineering Products, INC, 4506 Quality Lane Tampa, Fl, FL 33684 PH: (813) 885-1693 FX: (813) 644-2366

REVISIONS

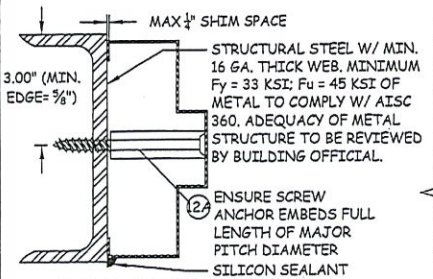
NO.	DESCRIPTION	BY	DATE
1	2014 FBC	CD	02.26.16

CODY DAVIS LICENSE No. 75154 STATE OF FLORIDA PROFESSIONAL ENGINEER
CODY DAVIS P.E. LIC. # 75154 FLORIDA

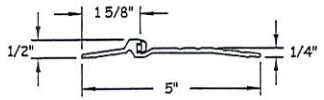
DATE: 02.26.16 | DWN BY: JLR | CHK BY: CCD | SCALE: NTS

DWG #: QEP005

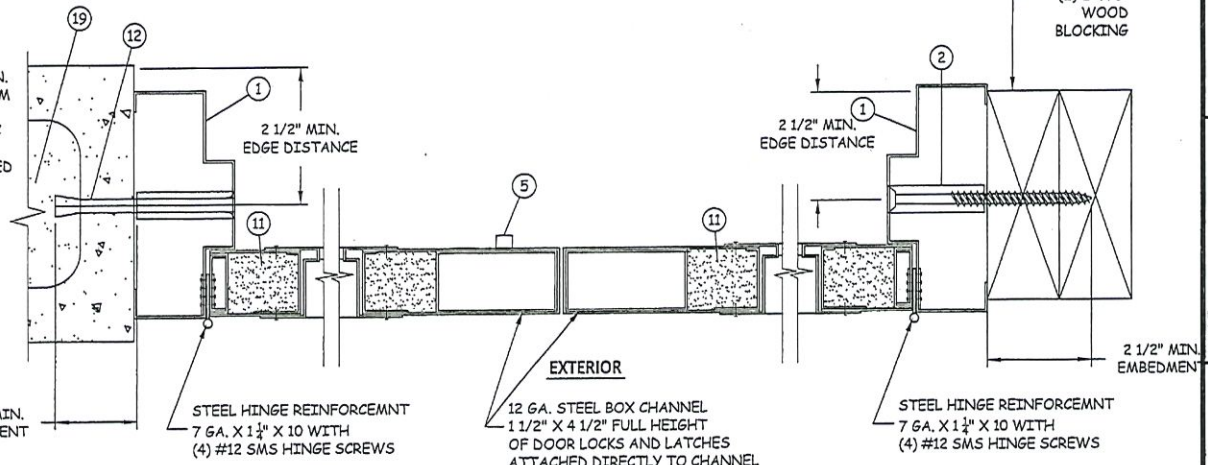
SHEET: 5 OF 7



E/6 ALT. METAL FRAME ATTACHMENT



PEMKO 2005AV THRESHOLD WITH VINYL SEAL



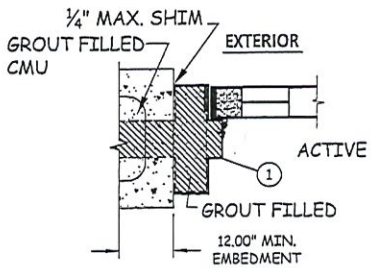
B/6 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY

C/6 HORIZONTAL SECTION
ASTRAGAL

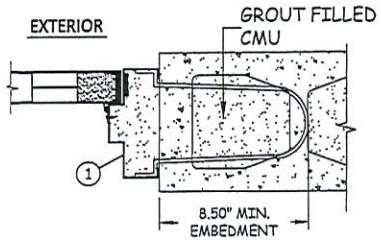
D/6 HORIZONTAL SECTION
JAMB - 2X WOOD FRAME

BILL OF MATERIALS

MARK	QUANITITY	DESCRIPTION
1	1	16 GA. (.063) MIN. STEEL HOLLOW METAL FRAME Fy MIN. = 46.3 KSI; Fu MIN. = 52.1 KSI (OR 304 SS Fy MIN. = 50.5 KSI; Fu MIN. = 98.5 KSI)
2	SEE ELEV.	3/8" X 6" WOOD LAG SCREWS W/ 3/4" EMT PIPE SLEEVE
3	2	16 GA. (.063) MIN. STEEL HOLLOW METAL DOORS W/ LOUVERS Fy MIN. = 41.2 KSI; Fu MIN. = 57.6 KSI (OR 304 SS Fy MIN. = 50.5 KSI; Fu MIN. = 98.5 KSI)
4	8	HAGER HINGES BB1279 4-1/2" x 4-1/2" x .134 THICK
5	2	IVES 360 SURFACE BOLTS
6	8	1/4" X 3" STAINLESS STEEL FLAT HEAD BOLT/WASHER/NUTS
7	1	THRESHOLD PEMKO #2005AV INSTALLED W/ 1/4" ITW TAPCONS (SEE ELEV. A/5)
8	1	SCHLAGE ALS3PD LOCK W/ B660 DEADLOCK
9	1	RUSWINN CL3355 LOCK W/ DL2113 DEADLOCK
10	1	MARK 195AB LOCK W/ 130K DEADLOCK
11	AS REQ.	EXPANDED POLYSTYRENE (EPS) BY APPACHE PRODUCTS (CURRENT NOA) OR FIBERGLASS INSULATION
12	SEE ELEV.	1/2" DIA. DYNABOLT ITW/REDHEAD SLEEVE ANCHOR (3/8" DIA. BOLT) X 4-1/2" SLEEVE ANCHOR W/ 3/4" DIA. WELDED PIPE SLEEVE W/ 1-7/8" MIN. EMBEDMENT & 3" MIN. EDGE DISTANCE
13	AS REQ.	16 GA. CUT OUT CHANNEL
14	AS REQ.	16 GA. LOUVER RAIL
15	AS REQ.	16 GA. LOUVER BLADE
16	AS REQ.	16 GA. LOUVER COVER
17	SEE ELEV.	0.187" DIA. WIRE ANCHOR Fy MIN. = 30 KSI
18	SEE ELEV.	16 GA (.059") MIN. T-ANCHOR Fy MIN. = 30 KSI
19	SEE ELEV.	FILL BLOCK CELL WITH MINIMUM 3000 PSI GROUT



E/6 HORIZONTAL SECTION
JAMB - T-ANCHOR



F/6 HORIZONTAL SECTION
JAMB - WIRE ANCHOR

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 19-0731.04
Expiration Date 10/28/24
By Ishaq I. Hanna
Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 17-1102.09
Expiration Date 10/28/19
Ishaq I. Hanna
Miami Dade Product Control

Quality Engineered Products Co., Inc.
4506 QUALITY LN.
TAMPA, FL. 33634
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: FULL LOUVERED STEEL DOOR HORIZONTAL SECTIONS, BILL OF MATERIALS & DETAILS

PREPARED BY: Quality Engineering Products, INC. 4506 Quality Lane Tampa, FL 33684 PH: (813) 885-1693 FX: (813) 644-2186

REVISIONS

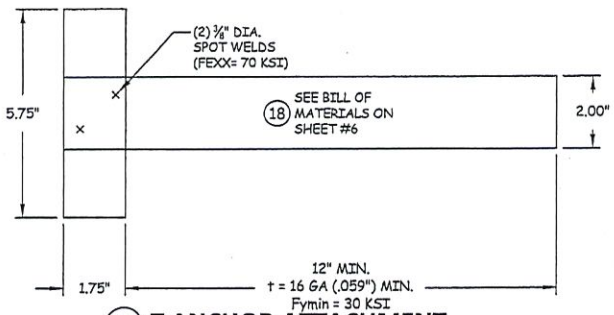
DESCRIPTION	BY	DATE
2014 FBC	CD	02.26.16

COLLEEN DAVIS LICENSE No. 76154 STATE OF FLORIDA PROFESSIONAL ENGINEER
COLLEEN DAVIS, P.E. FLORIDA LIC. # 76154

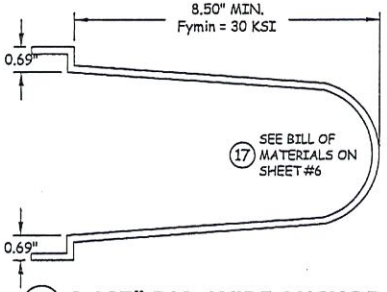
DATE: 02.26.16 | DWN BY: JLR | CHK BY: CCD | SCALE: NTS

DWG #: QEP005

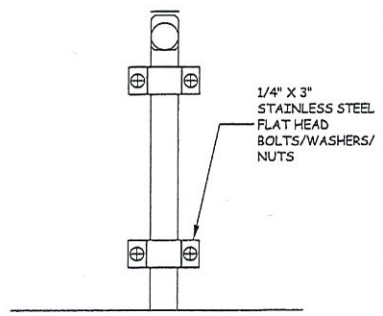
SHEET: 6 OF 7



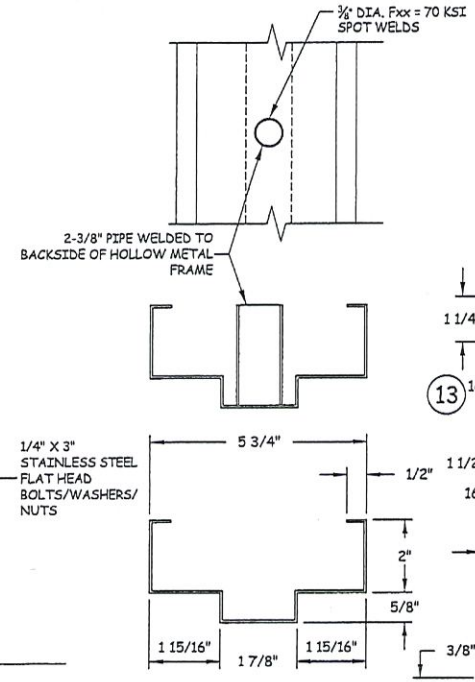
18 T ANCHOR ATTACHMENT



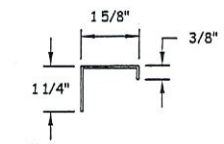
17 0.187" DIA. WIRE ANCHOR



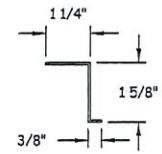
5 IVES 360 SURFACE BOLT



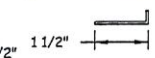
16 GA. (.063 MIN.)
1 STEEL FRAME PROFILE



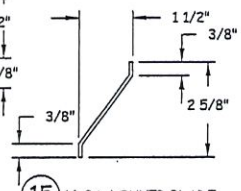
13 16 GA. CUT OUT CHANNEL



14 16 GA. LOUVER RAIL



16 GA. LOUVER COVER



15 16 GA. LOUVER BLADE

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 19-0731.04
Expiration Date OCT 28, 2024
By Ishay L. Chandra
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 17-1102.09
Expiration Date 10/28/19
By Ishay L. Chandra
Miami Dade Product Control

Quality Engineered Products Co., Inc.
4506 QUALITY LN.
TAMPA, FL. 33634
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: FULL LOUVERED STEEL DOOR HORIZONTAL SECTIONS, BILL OF MATERIALS & DETAILS

PREPARED BY:
Quality Engineering Products, INC, 4506 Quality Lane
Tampa, Fl, FL 33684
PH: (813) 885-1693 FX: (813) 644-2366

REVISIONS

NO.	DESCRIPTION	BY	DATE
	2014 FBC	CD	02.26.16

CODY DAVIS LICENSE No. 75154 STATE OF FLORIDA 1/31/18 PROFESSIONAL ENGINEER

CODY DAVIS, P.E.
FLORIDA LIC. # 75154

DATE:	DWN BY:	CHK BY:	SCALE:
02.26.16	JLR	CCD	NTS

DWG #: QEP005

SHEET: 7 OF 7

R:\1000 Projects\1122 Global Engineering\1122-003 Doors NOA 2017 FBC\Engineering_NOA 17-1102.09 (Old 16-0422.11)\DWG\QEP005 Louvered Steel Door_20150809dwg_acad2000_.dwg, 1/31/2018 2:34:56 PM, John