



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**  
**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/buildingcode](http://www.miamidade.gov/buildingcode)

**Quality Engineered Products, Co., Inc.**  
**4506 Quality Lane**  
**Tampa, FL 33622**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Series "HMF" 16 ga Outswing Full Louvered Commercial Steel Door-Impact**

**APPROVAL DOCUMENT:** Drawing No. **QEP005**, titled "Full Louvered Steel Doors", sheets 1 through 5 of 5, prepared by manufacturer, dated Nov 12, 2009, signed and sealed by David M. Schonacher, P. E. , 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 Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**Limitation:** 1. Not approved where Air & Water infiltration is needed

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise 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 & renews # 04-0823.03**, consists of this page, evidence sheet E-1, as well as, approval document mentioned above.

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

**NOA No 09-0812.17**

**Expiration Date: October 28, 2014**

**Approval Date: December 23, 2009**

**Page 1**

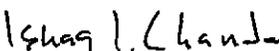


12/1/09

**Quality Engineered Products, Co., Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- A. DRAWINGS** (transferred from file # 04-0823.03)
1. Manufacturer's die drawings and sections.
  2. Drawing No. **QEP005**, titled "Full Louvered Steel Doors", sheets 1 through 5 of 5, prepared by manufacturer, dated Nov 12, 2009, signed and sealed by David M. Schonacher, P. E.
- B. TESTS** (transferred from file # 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
- C. CALCULATIONS**
1. Anchor verification calculations, dated 10/25/2005, prepared, signed and sealed by David M. Schonacher, P.E.
- D. QUALITY ASSURANCE BY:**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS** (transferred from file # 04-0823.03)
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.
  2. Notice of Acceptance No. **07-1107.08** issued to Dyplast Product, LLC (Former Apache Products Company) for "EPS-Expanded Polystyrene Insulation", expiring on 01/11/12.
- F. STATEMENTS**
1. Statesman letter of conformance to FBC 2007 and "No financial interest", dated 12-01-2009, signed and sealed by David M. Schonacher, P. E.
  2. Statement letter of compliance, as a part of the above referenced test report, issued by Certified Testing Laboratories Inc.
- G. OTHER**
1. This NOA **revises & renews # 04-0823.03**, expired on Oct 28, 2009

  
\_\_\_\_\_  
**Ishaq I. Chanda, P.E.**  
**Product Control Examiner**  
**NOA No 09-0812.17**  
**Expiration Date: October 28, 2014**  
**Approval Date: December 23, 2009**

**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. 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.
4. FOR 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.
5. FOR 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.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. 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.
9. 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.
10. 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. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

**GENERAL NOTES:**

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2007 FLORIDA BUILDING CODE (FBC), 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 AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM 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. (2) 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 RECORD FOR THE PROJECT OF INSTALLATION.
4. 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 FRAME MATERIAL: 16 GA. STEEL
7. STRUCTURAL MEMBER AT DOOR HEADER MUST BE DESIGNED TO CARRY 179#/FT LOAD AND TO BE REVIEWED BY BUILDING OFFICIAL

# QUALITY ENGINEERED PRODUCTS

## FULL LOUVERED COMMERCIAL STEEL DOOR

(OUTSWING)

Quality Engineered Products Co., Inc.

4506 QUALITY LN.  
TAMPA, FL. 33634  
PH: (813) 885-1693 FX: (813) 884-2673

<b>REVISIONS</b>	TITLE: FULL LOUVERED STEEL DOOR	INSTALLION & GENERAL NOTES	PREPARED BY: QUALITY ENGINEERED PRODUCTS 4506 QUALITY LN. TAMPA, FL 33634 PH: 813.885.1693 FX: 813.884.2673
	NO.		

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

NOV 12 2009  
DAVID M. SCHONACHER, P.E.  
FLORIDA REG. # 163151

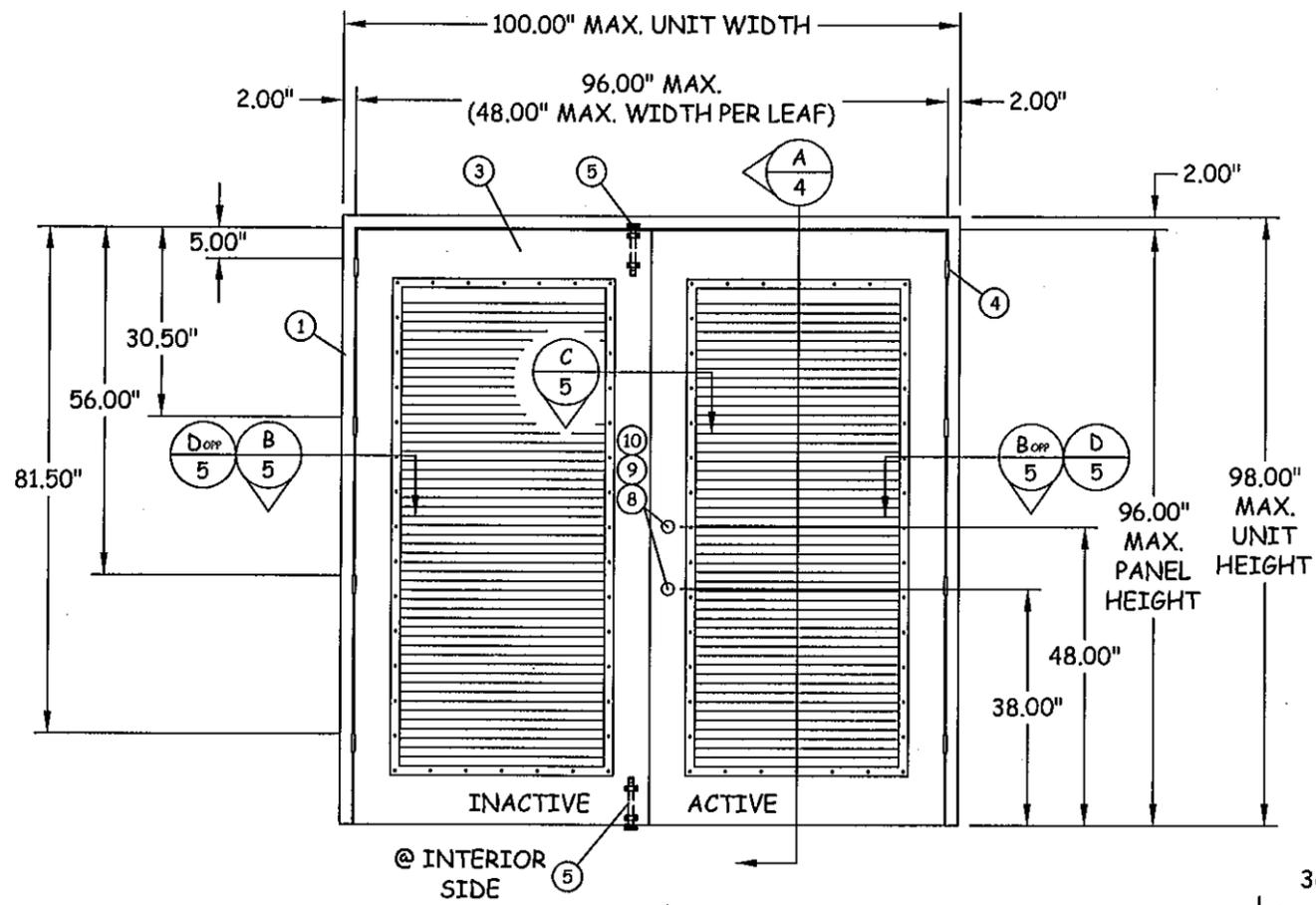
QUALITY ENGINEERED PRODUCTS  
TAMPA, FLORIDA 33634  
PH: (813) 885-1693

PRODUCT RENEWED  
as complying with the Florida Building Code  
Acceptance No. 09-0612-17  
Expiration Date OCT 28, 2014  
By Ishag I. Chaudhry  
Miami Dade Product Control Division

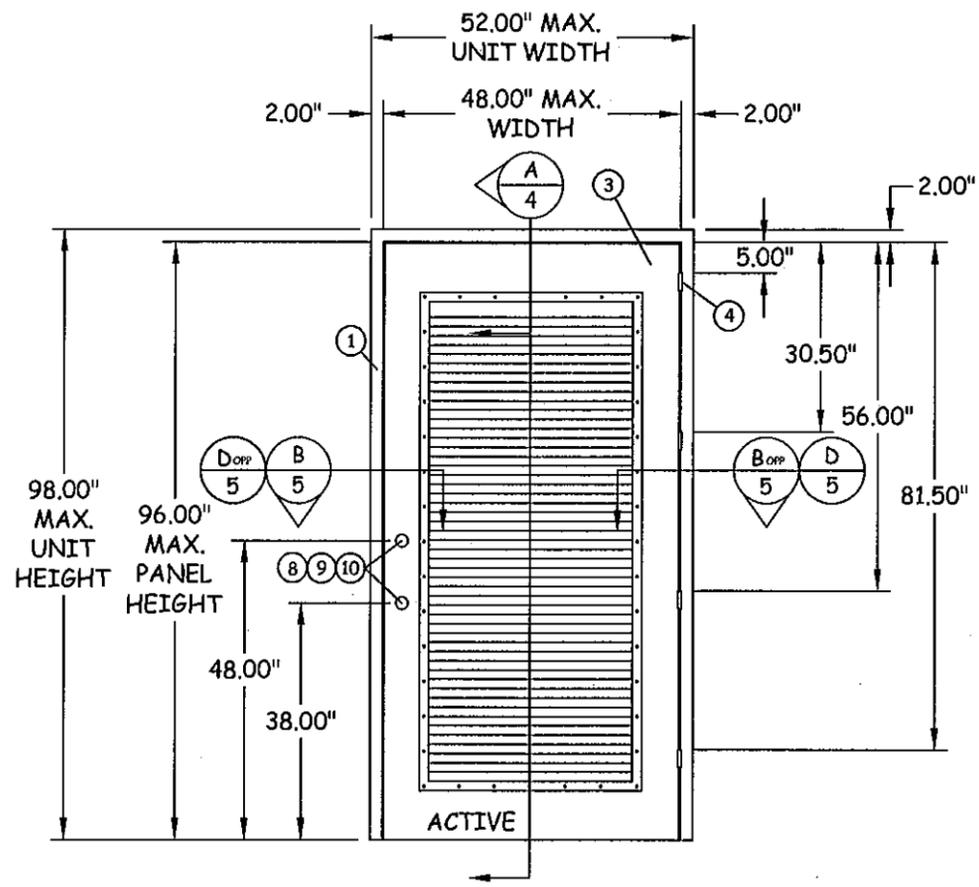
DATE: 11.11.09  
DWN BY: KRM  
CHK BY: DMS  
SCALE: NTS  
DWG #: QEP005  
SHEET: 1 OF 5

TITLE: FULL LOUVERED STEEL DOOR  
ELEVATIONS & DETAILS

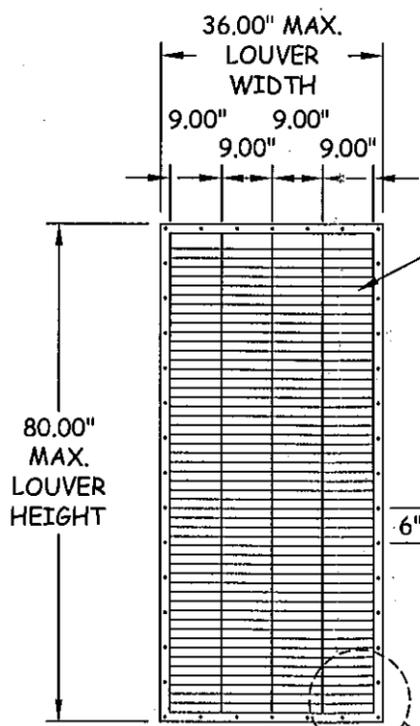
PREPARED BY:  
QUALITY ENGINEERED PRODUCTS  
4506 QUALITY LN.  
TAMPA, FL 33634  
PH: 813.885.1693 FX: 813.884.2673



**EXTERIOR  
ELEVATION**



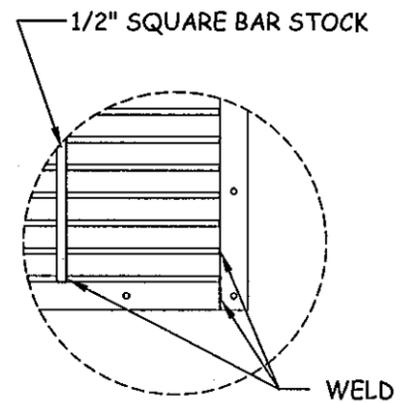
**EXTERIOR  
ELEVATION**



**ILLUSTRATED  
INTERIOR VIEW  
LOUVER**

(3) PIECES, EACH LOUVER, 1/2" SQUARE BAR STOCK FROM TAMPA STEEL & SUPPLY WELDED TO LOUVER FRAME AND TACK WELDED TO EACH LOUVER BLADE

EACH LOUVER ATTACHED TO THE DOOR WITH (38) #6 X 1/2" SQUARE DRIVE SCREWS  
14 - (LEFT)  
14 - (RIGHT)  
5 - (TOP)  
5 - (BOTTOM)



**DETAIL A**

**REVISIONS**

NO.	DESCRIPTION	BY	DATE

NOV 12 2009

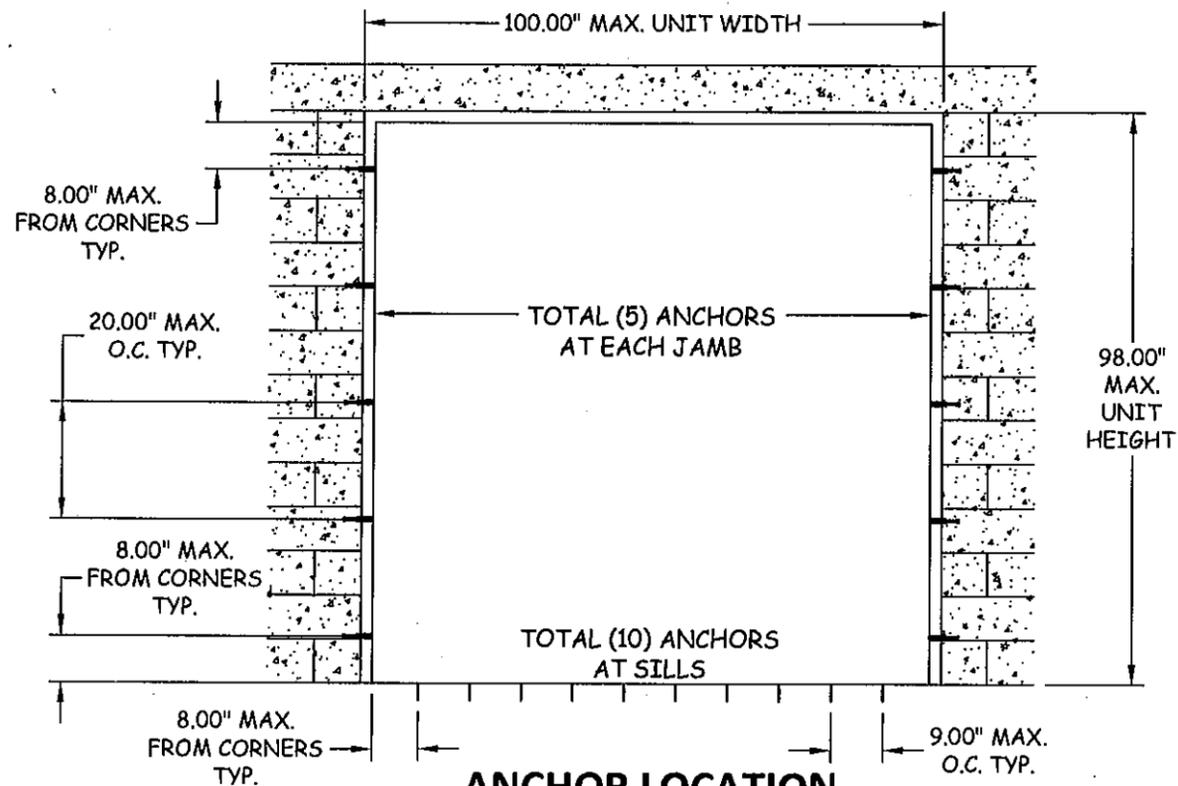
DAVID M. SCHONACHER, P.E.  
FLORIDA REG. # 63151

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 09-0812.17  
Expiration Date OCT 22, 2014

By: *Shaq I. Chandy*  
Miami-Dade Product Control  
Division

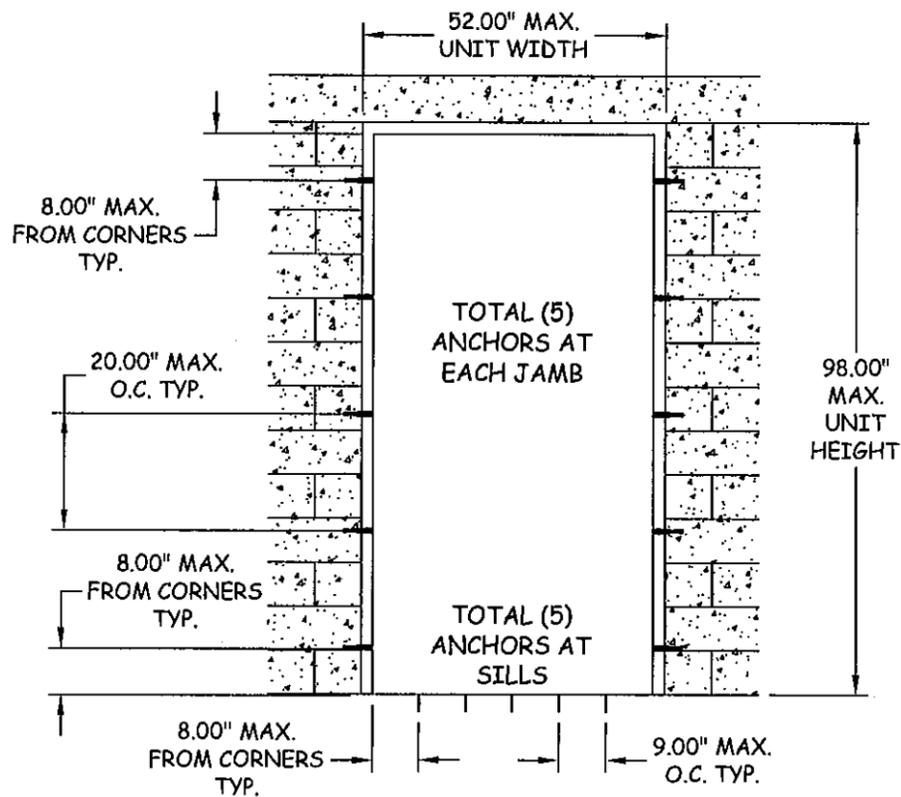
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DWN BY: KRM  
CHK BY: DMS  
SCALE: NTS

DWG #: **QEP005**  
SHEET: 2 OF 5



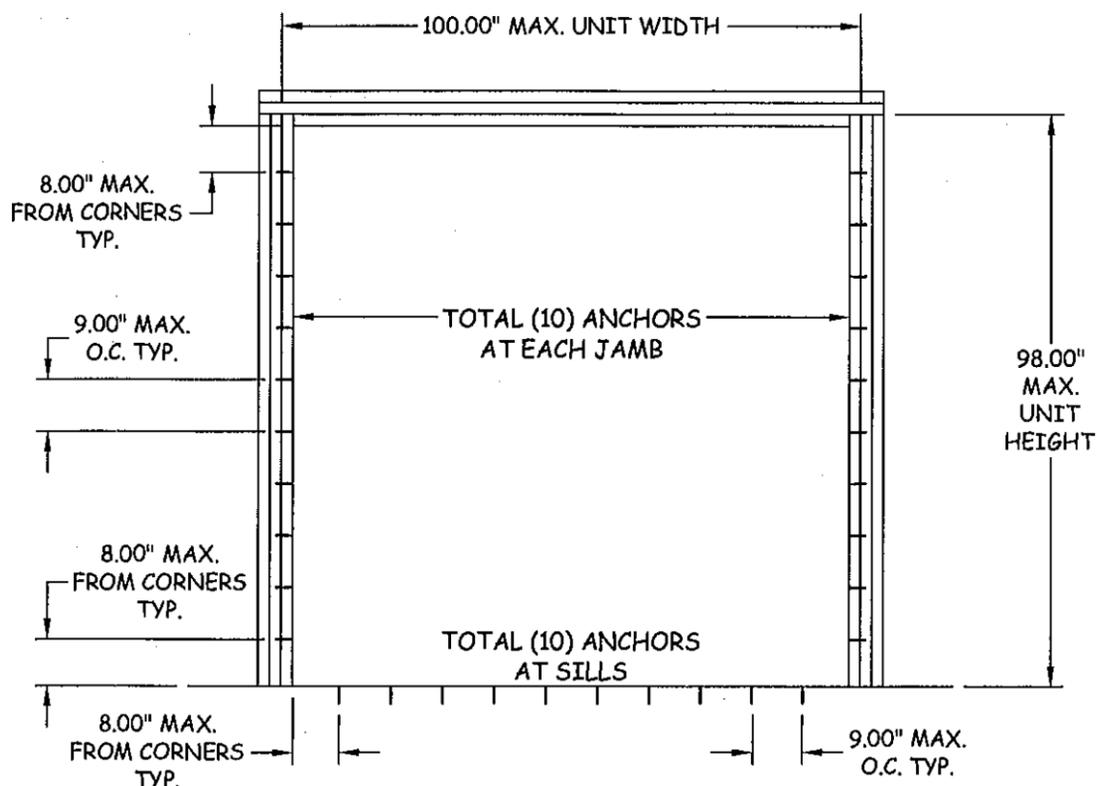
**ANCHOR LOCATION**

INSTALLATION INTO MASONRY  
(GROUT FILLED BLOCKS)



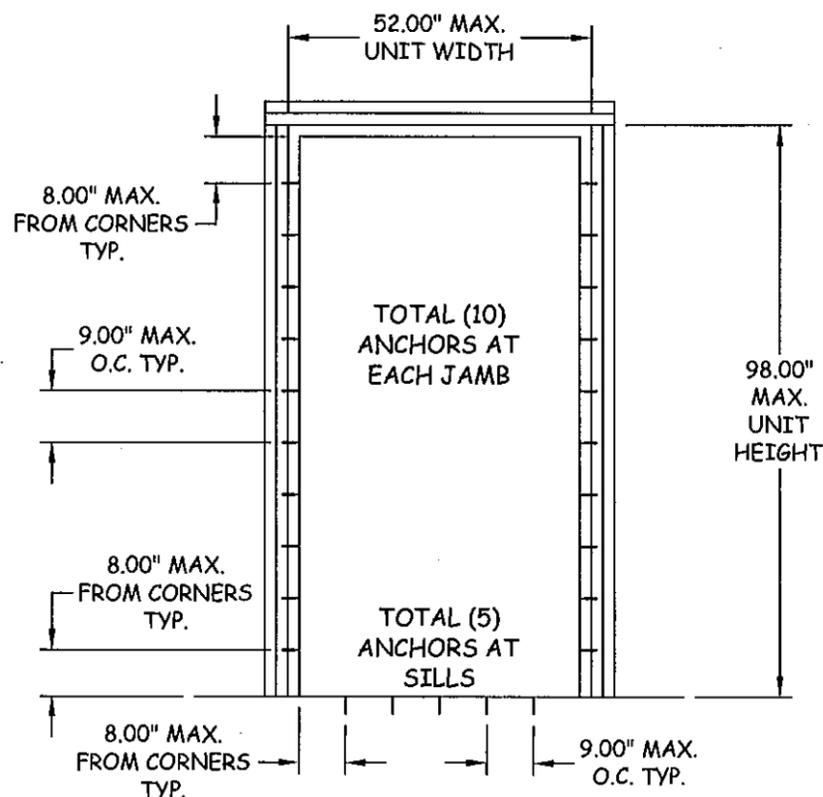
**ANCHOR LOCATION**

INSTALLATION INTO MASONRY  
(GROUT FILLED BLOCKS)



**ANCHOR LOCATION**

INSTALLATION INTO WOOD STRUCTURE



**ANCHOR LOCATION**

INSTALLATION INTO WOOD STRUCTURE

Quality  
Engineered  
Products Co., Inc.

4506 QUALITY LN.  
TAMPA, FL 33634  
PH: (813) 885-1693 FX: (813) 884-2673

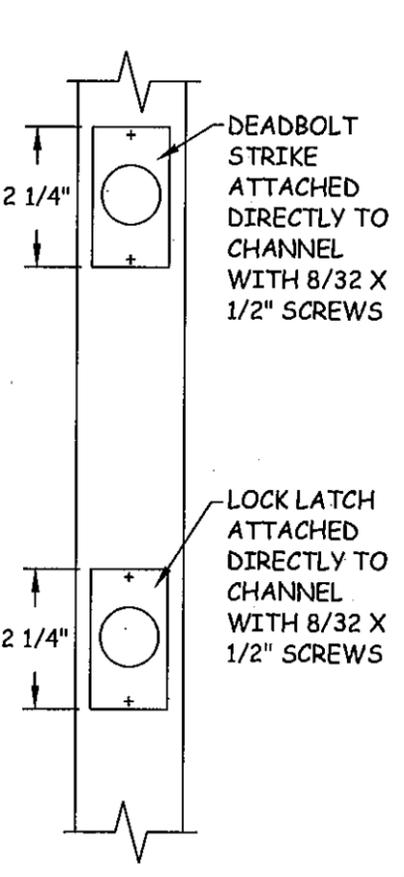
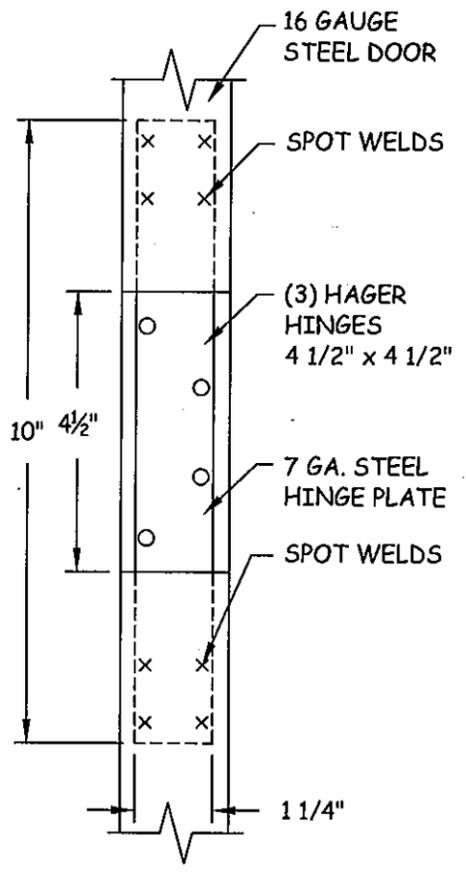
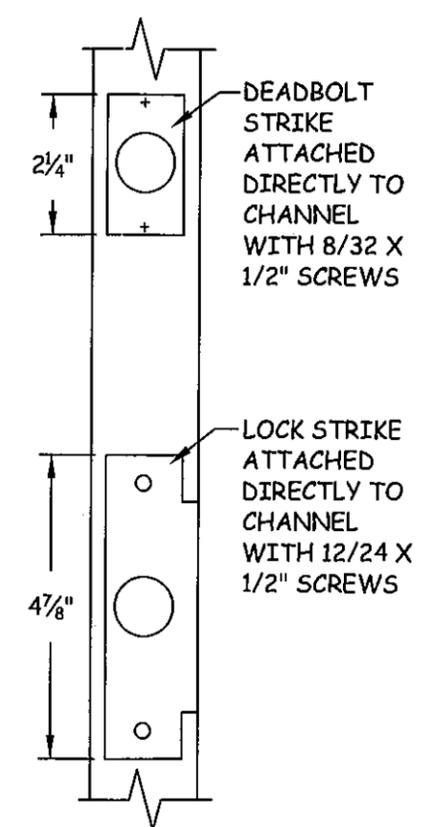
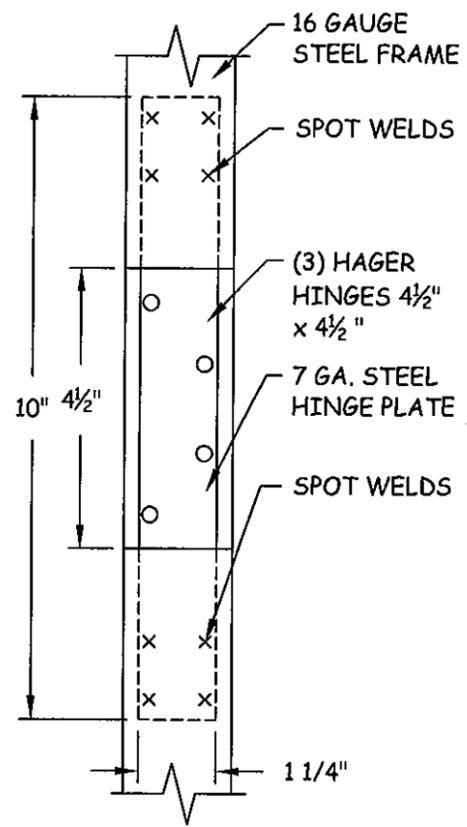
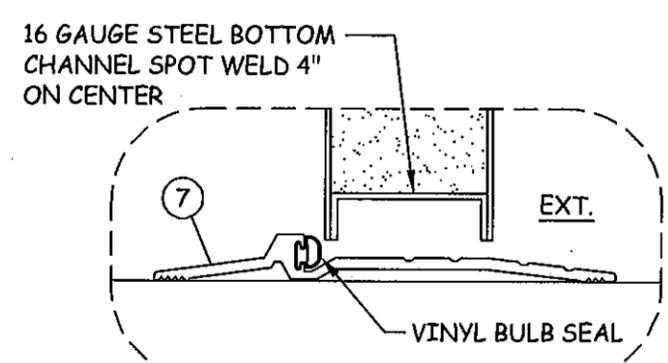
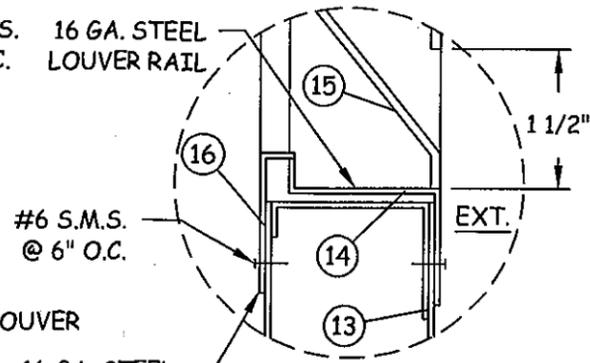
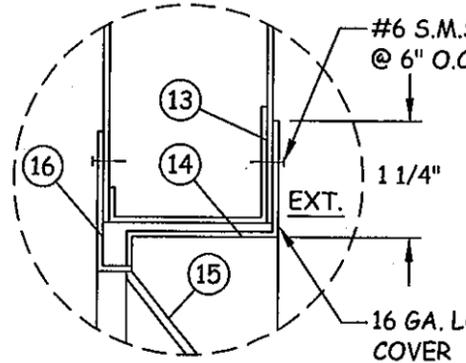
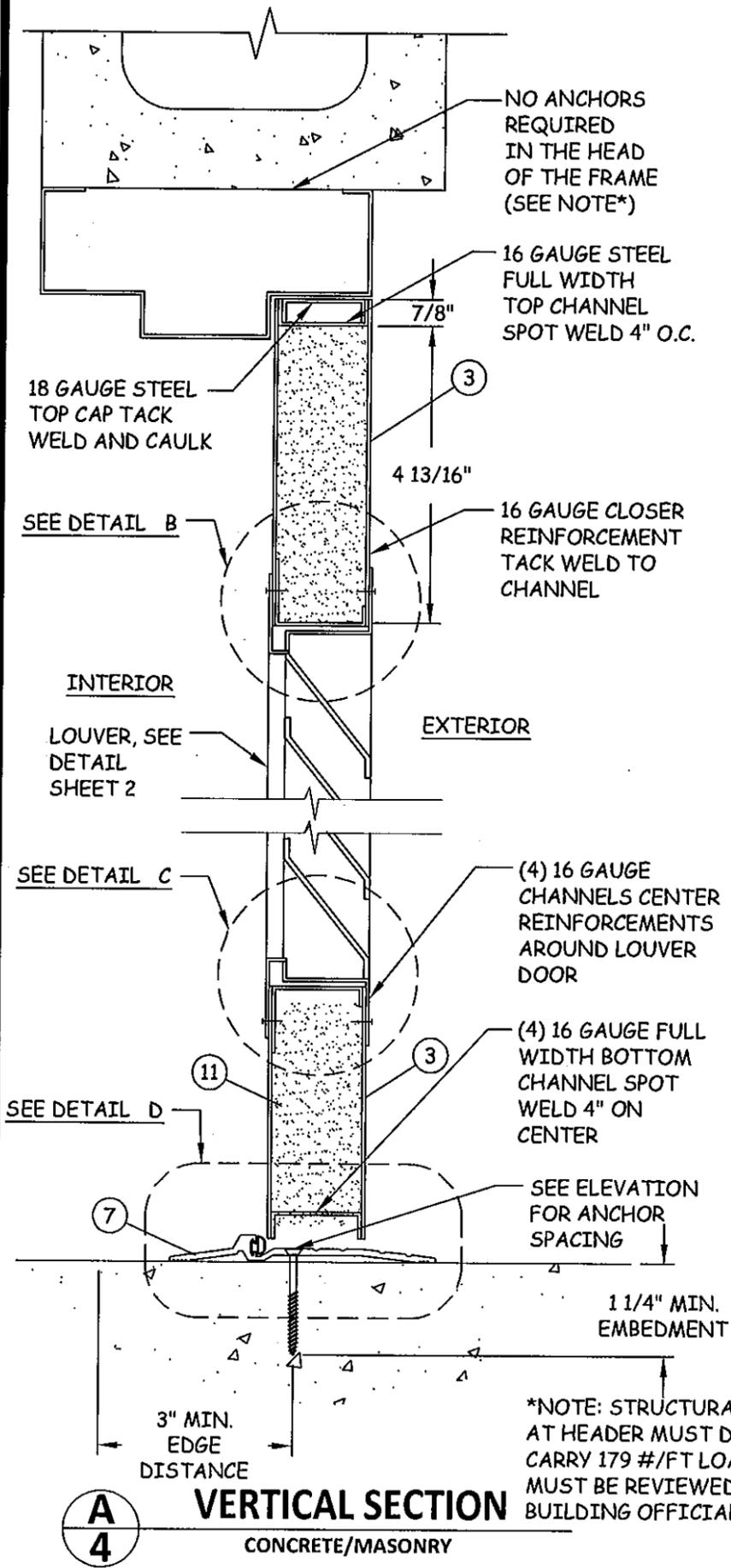
TITLE: FULL LOUVERED STEEL DOOR ANCHOR LAYOUTS  
PREPARED BY: QUALITY ENGINEERED PRODUCTS 4506 QUALITY LN. TAMPA, FL 33634 PH: 813.885.1693 FX: 813.884.2673

REVISIONS		NO.	DESCRIPTION	BY	DATE

NOV 12 2009  
DAVID M. SCHONACHER, P.E.  
FLORIDA REG. # 63131

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 09-0812.17 Expiration Date 01/28/2014  
By: *[Signature]*  
Miami-Dade Product Control Division

DATE: 11.11.09  
DWN BY: KRM  
CHK BY: DMS  
SCALE: NTS  
DWG #: QEP005  
SHEET: 3 OF 5



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 SECTION & DETAILS

PREPARED BY: QUALITY ENGINEERED PRODUCTS 4506 QUALITY LN. TAMPA, FL 33634 PH: 813.885.1693 FX: 813.884.2673

NO.	REVISIONS	DESCRIPTION	BY	DATE

NOV 18 2009

DAVID M. SCHONACHER, P.E.  
FLORIDA REG. # 63131

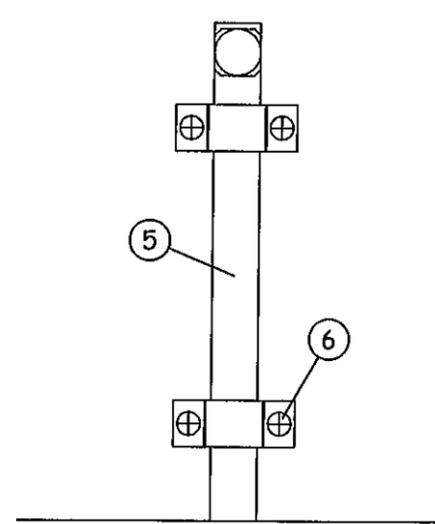
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 09-0812.17 Expiration Date OCT 28, 2014

By *Charles J. Chanda*  
Miami Dade Product Control Division

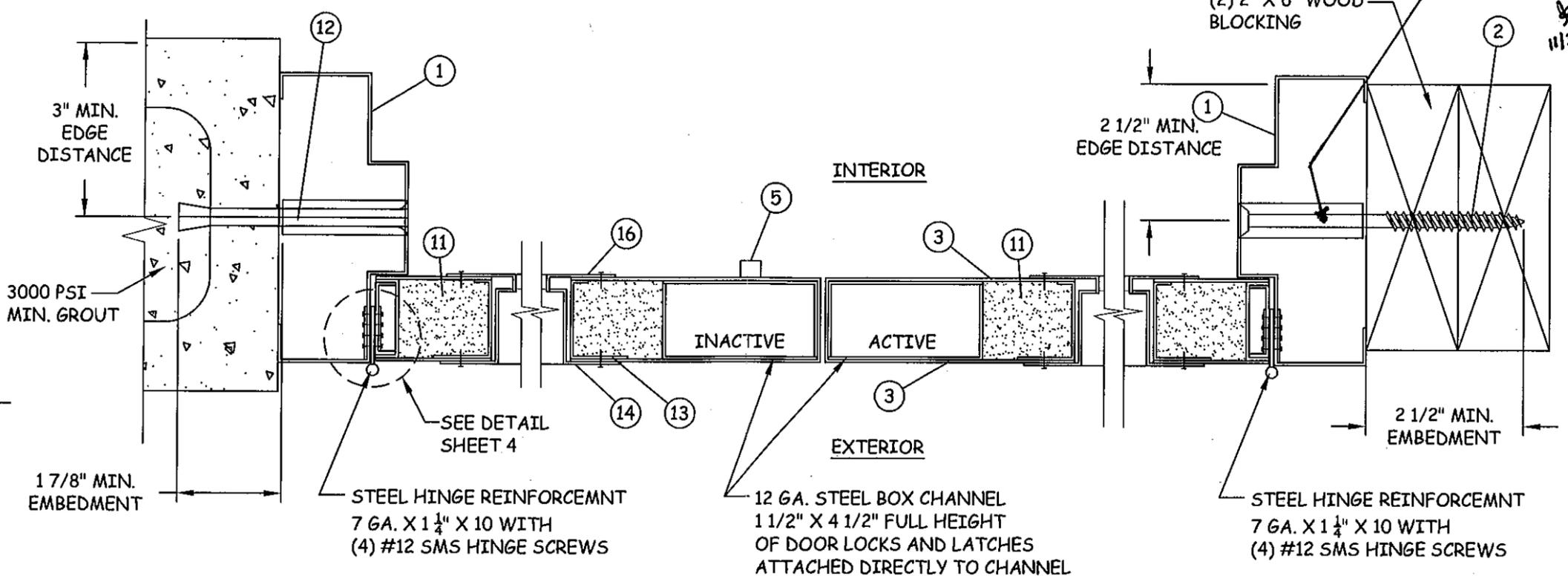
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DWN BY: KRM  
CHK BY: DMS  
SCALE: NTS

DWG #: **QEP005**  
SHEET: **4 OF 5**

TITLE: FULL LOUVERED STEEL DOOR  
HORIZONTAL SECTIONS,  
BILL OF MATERIALS, & DETAILS  
PREPARED BY:  
QUALITY ENGINEERED PRODUCTS  
4506 QUALITY LN.  
TAMPA, FL 33634  
PH: 813.885.1693 FX: 813.884.2673



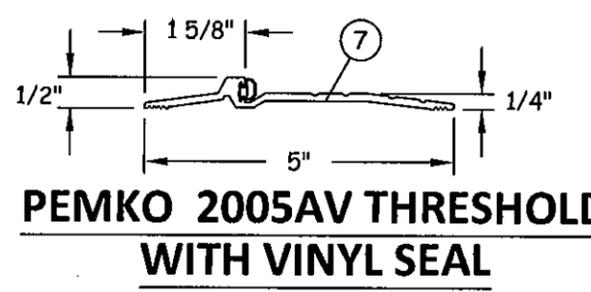
**IVES 360  
SURFACE BOLT**



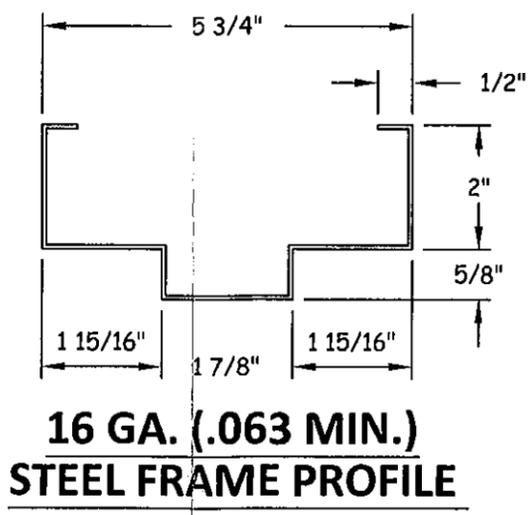
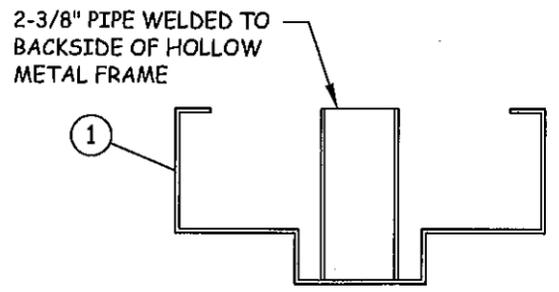
**B**  
**5** **HORIZONTAL SECTION**  
JAMB - CONCRETE/MASONRY

**C**  
**5** **HORIZONTAL SECTION**  
ASTRAGAL

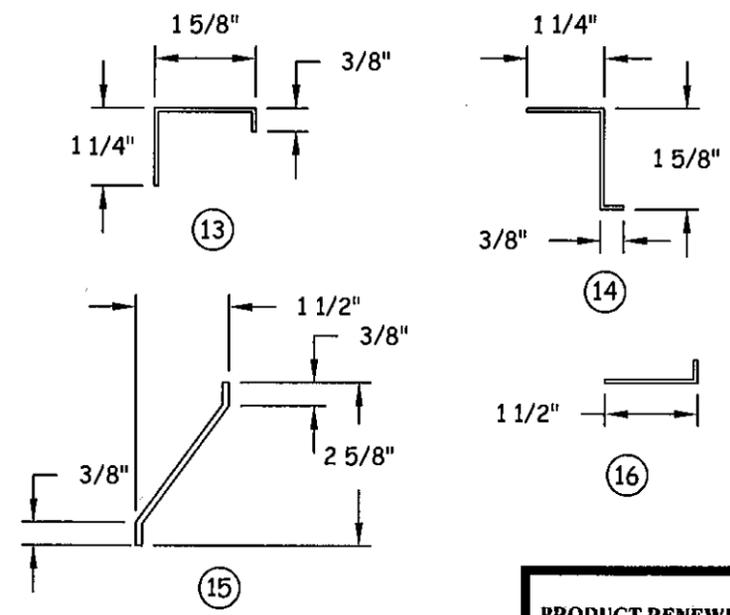
**D**  
**5** **HORIZONTAL SECTION**  
JAMB - 2X WOOD FRAME



**PEMKO 2005AV THRESHOLD  
WITH VINYL SEAL**



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



BILL OF MATERIALS		
MARK	QUANTITY	DESCRIPTION
1	1	16 GA. (.063) MIN. STEEL HOLLOW METAL FRAME
2	SEE ELEV.	3/8" x 6" WOOD LAG SCREWS W/ 3/4" EMT PIPE SLEEVE
3	2	16 GA. (.0635) MIN. STEEL HOLLOW METAL DOORS W/ LOUVERS Fy MIN. = 41,200 PSIFU MIN. = 57,800 PSI)
4	8	HANGER 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/ #10 WOOD SCREWS OR 3/16" ITW TAPCONS (SEE ELEV. PER SHEET 3)
8	1	SCHLAGE AL53PD LOCK W/ B680 DEADLOCK
9	1	RUSWINN CL3355 LOCK W/ DL2113 DEADLOCK
10	1	MARKS 195AB LOCK W/ 130K DEADLOCK
11	AS REQ.	EXPANDED POLYSTYRENE (EPS) BY APPACHE PRODUCTS (CURRENT NOA) 1/2" DIA. DYNABOLT ITW/REDHEAD SLEEVE ANCHOR (3/8" DIA. BOLT) X 4-1/2"
12	SEE ELEV.	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

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 09-0812-17  
Expiration Date 02/26/2014  
By: *(Signature)*  
Miami-Dade Product Control  
Division

DATE: 11.11.09  
DWN BY: KRM  
CHK BY: DMS  
SCALE: NTS  
DWG #: QEP005  
SHEET: 5 OF 5

NOV 12 2009  
DAVID M. SCHONACHER, P.E.  
FLORIDA REG. # 6313