MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISION

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/building

NOTICE OF ACCEPTANCE (NOA)

Master Security Doors, Inc.
2179 N. Powerline Road, Ste 2
Pompano Beach, FL 33069

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Inswing Double Steel Door

APPROVAL DOCUMENT: Drawing No. 12-058, titled " Inswing Double Steel Door", sheets 1 through 23 of 23, prepared by Tilteco, Inc., dated February 29, 2012, last revision #1 dated February 29, 2012, signed and sealed by Walter A. Tillit Jr., P.E., on March 12, 2012, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the 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 and renews NOA #07-0629.08** and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.
The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

MIAMI-DADE COUNTY APPROVED

Helmy A. Makar
08/30/2012

NOA No. 12-0319.08
Expiration Date: 04/11/2013
Approval Date: 08/30/2012

Master Security Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #01-1019.01

A. DRAWINGS

1. *Manufacturer's die drawings and sections.*
2. *Drawing No. MOL-002, titled "Model: EX-4 US In or Out Swing Double Door", sheets 1 through 23 of 23, prepared by Master S.R.L., structurally reviewed by Walter A. Tillit Jr., P.E., dated May 18, 2000.*

B. TESTS

1. *Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94*
   2) Uniform Static Air Pressure Test, Loading per SFBC PA 202-94
   3) Large Missile Impact Test per SFBC, PA 201-94
   4) Cyclic Wind Pressure Loading per SFBC, PA 203-94
   5) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94
   along with marked-up drawings and installation diagram of Model: EX-4 US In or Out Swing Double Door, prepared by American Test Lab of South Florida, Test Report No. 0204.01-00, dated 11/13/2000, signed and sealed by William R. Mehner, P.E. and Henry Hattem P.E.

C. CALCULATIONS

1. *Anchor Calculations, prepared by Tilteco, Inc., dated 09/12/2001, sheets 1 through 4 of 4, signed and sealed by Walter A. Tillit Jr., P.E.*

D. MATERIAL CERTIFICATIONS

1. *Tensile Test Report #CTL-781F by Certified Testing Laboratories, dated August 21, 2000, for sample D, signed and sealed by Ramesh Patel, P.E.*

E. STATEMENTS

1. *Statement letter of conformance, dated 11/09/2000, signed and sealed by Walter A. Tillit Jr., P.E.*
2. *Statement letter of no financial interest, dated 11/09/2000, signed and sealed by Walter A. Tillit Jr., P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0417.03

A. DRAWINGS

1. *Drawing No. 07-151, titled " Outswing Double Steel Door", sheets 1 through 23 of 23, prepared by Tilteco, Inc., dated March 25, 2007, last revision #1 dated June 01, 2007, signed and sealed by Walter A. Tillit Jr., P.E., on June 11, 2007.*

Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0319.08
Expiration Date: 04/11/2013
Approval Date: 08/30/2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor Calculations, prepared by Tilteco, Inc., dated 06/01/2007, sheets 1 through 12 of 12, signed and sealed by Walter A. Tillit Jr., P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance to 2004 Florida Building Code, dated June 11, 2007, signed and sealed by Walter A. Tillit Jr., P.E.

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0629.08

A. DRAWINGS

1. Drawing No. 07-152, titled " Inswing Double Steel Door", sheets 1 through 23 of 23, prepared by Tilteco, Inc., dated March 25, 2007, last revision #1 dated June 01, 2007, signed and sealed by Walter A. Tillit Jr., P.E., on June 11, 2007.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor Calculations, prepared by Tilteco, Inc., dated 06/01/2007, sheets 1 through 12 of 12, signed and sealed by Walter A. Tillit Jr., P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance to 2004 Florida Building Code, dated June 11, 2007, signed and sealed by Walter A. Tillit Jr., P.E.

Hemy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0319.08
Expiration Date: 04/11/2013
Approval Date: 08/30/2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 12-058, titled " Inswing Double Steel Door", sheets 1 through 23 of 23, prepared by Tilteco, Inc., dated February 29, 2012, last revision #1 dated February 29, 2012, signed and sealed by Walter A. Tillit Jr., P.E., on March 12, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *Statement letter of conformance to 2010 Florida Building Code, dated March14, 2012, signed and sealed by Walter A. Tillit Jr., P.E.*

Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0319.08
Expiration Date: 04/11/2013
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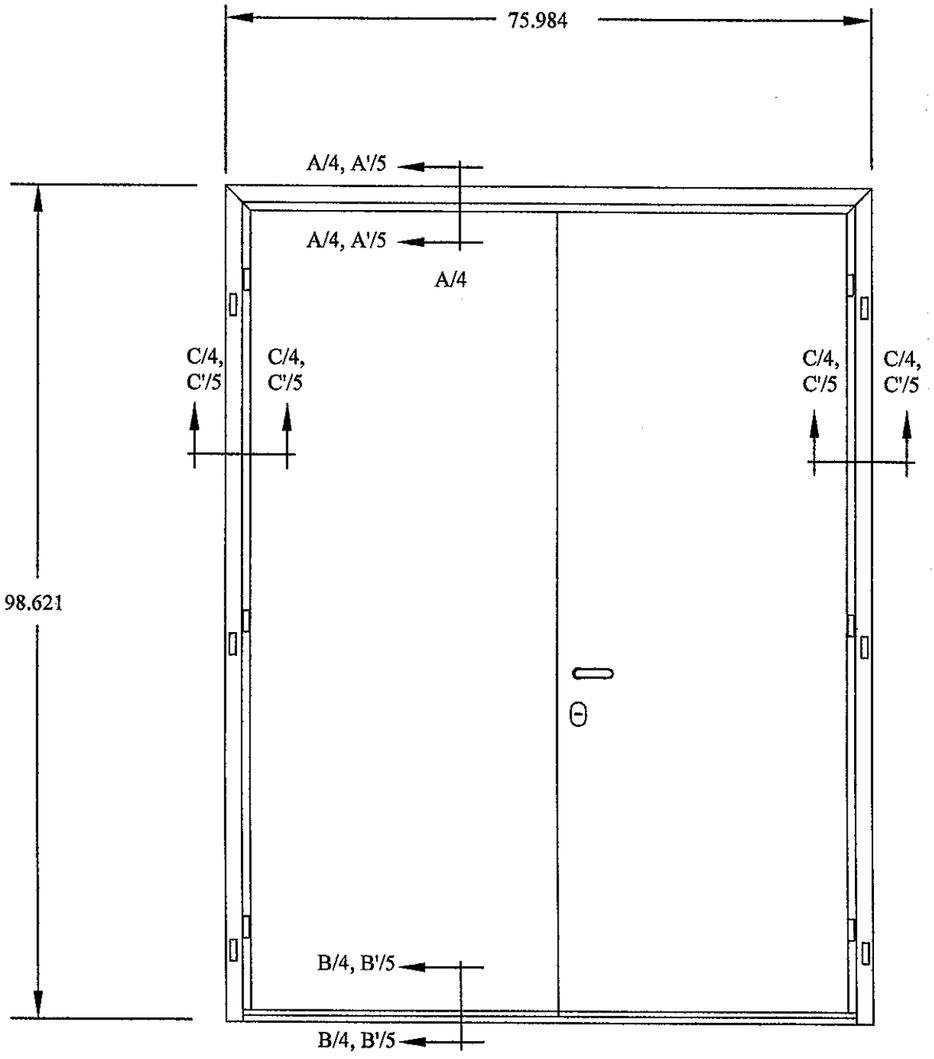


ELEVATION

GENERAL NOTES:

THIS DOOR SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2007 & 2010 EDITIONS OF THE FLORIDA BUILDING CODE. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODES, USING ASCE 7-05 STANDARD FOR INSTALLATIONS UNDER 2007 FBC & ACE 7-10 FOR INSTALLATIONS UNDER 2010 FBC AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATING INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATING INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. A DURATION FACTOR CD = 1.60 WAS USED FOR VERIFICATION OF FASTENERS IN WOOD.

FRAME AND SUB-FRAME MATERIAL: HOT ROLLED METAL DD12 REF. EN 10111 WITH TENSILE STRENGTH = 48,000 P.S.I.; YIELD STRENGTH AT 0.2% = 41,000 P.S.I. ULTIMATE ELONGATION 34%.

DOOR MATERIAL: HOT ROLLED ZINC PLATED DX51 + Z275 (275 G/m^2, 0.6 OZ/FT^2) REF. EN 10142 + A1-97 WITH TENSILE STRENGTH = 73,000 P.S.I. YIELD STRENGTH 58,000 P.S.I., ULTIMATE ELONGATION 30%

ASTM DESIGNATION FOR STEEL : EQUIVALENT TO ASTM A 653 CQ GRADE 41 AT FRAME AND ASTM A 653 CQ GRADE 60 AT DOOR

GALVANIZING TYPE: G60

WOOD BUCKS BY OTHERS, NOT BY MASTER SECURITY DOORS BUT SHALL BE OF SPECIFIC GRAVITY G = 0.55 MIN. AND SHALL COMPLY W/ SECTIONS 2411.3.3.3. & 2326 OF THE 2007 & 2010 EDITIONS OF THE FLORIDA BUILDING CODE & MUST SUSTAIN LOADS IMPOSED BY DOOR AND TRANSFER THEM TO THE BUILDING STRUCTURE

DOOR DOES NOT NEED A HURRICANE PROTECTIVE DEVICE

DECORATIVE WOOD CLAD PANELS: 0.250" THICK PLYWOOD, OAK, PINE, MAHOGANY, DOUGLAS FIR WITH 10-12% MAX. MOISTURE CONTENT, PAINTED WITH SEVERAL COATINGS OF WATER BASED VARNISHES, PROTECTIVE IMPREGNATORS AND COATINGS FOR OUTDOOR INSTALLATION

PROVIDE 1/4" MAX. BEARING SHIM SPACE.

MAX. A.S.D. DESIGN PRESSURE RATING: + 100, - 100 P.S.F. (PER TAS 201, 202 AND 203 PROTOCOLS).

UNIT SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN A NON-HABITABLE AREA WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

MIAMI DADE COUNTY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0319.08
Expiration Date 04/11/2013
By
Miami Dade Product Control

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr. P. E.
FLORIDA Lic. # 44167

INSWING DOUBLE STEEL DOOR

MASTER SECURITY DOORS, INC.
702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

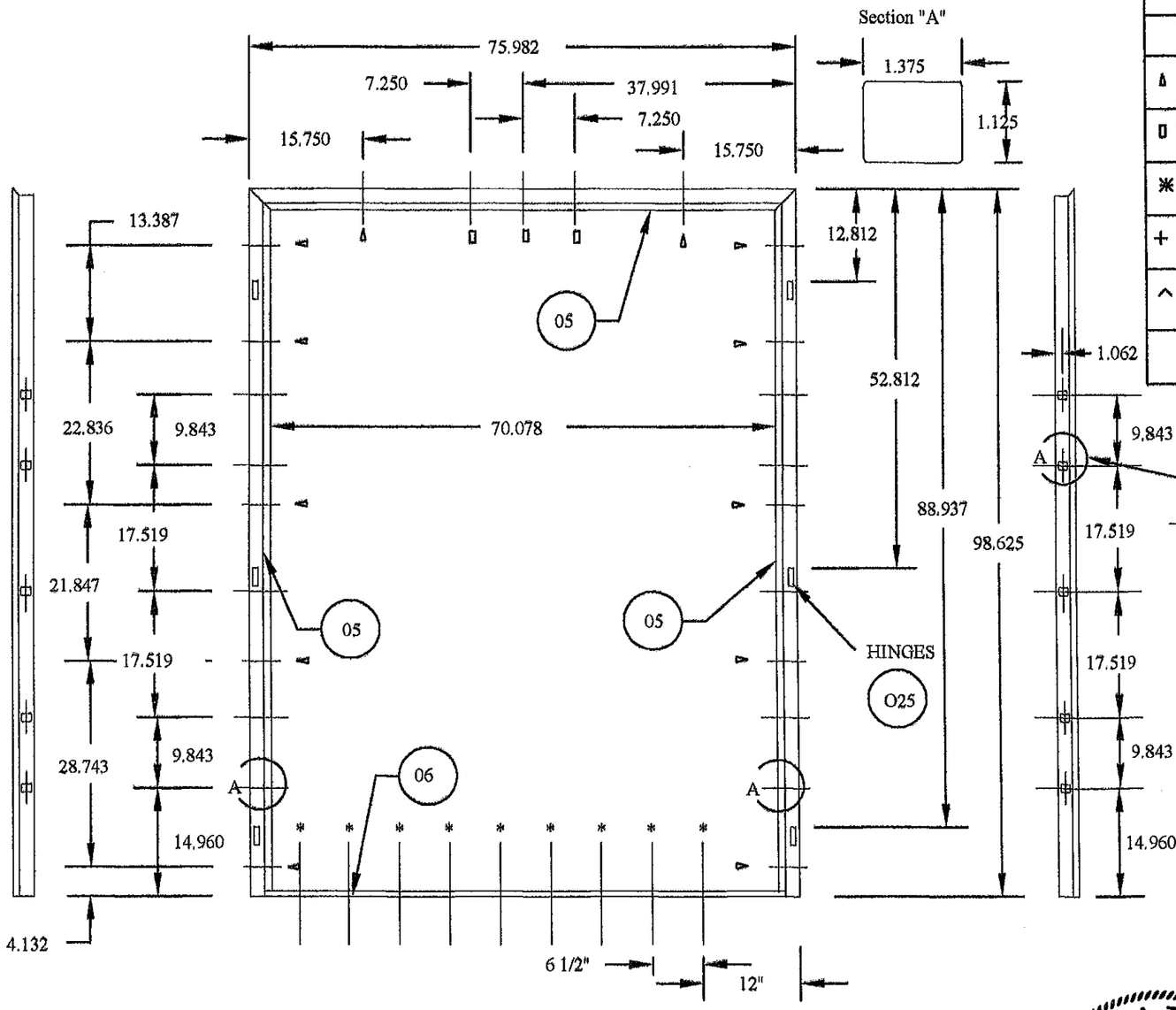
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

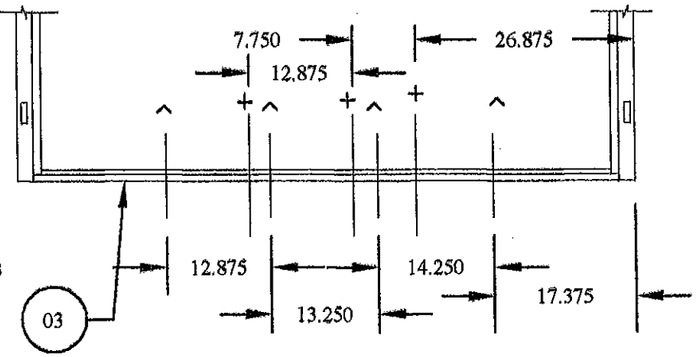
PRODUCT DESCRIPTION
FRAME ASSEMBLY

DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
1 OF 23





FASTENER LEGEND			
	Description	QTY	Use:
Δ	1/4" X 1-3/16" FLAT ALLEN HEAD SCREWS	12	Used to connect frame to sub-frame, (see page 19)
▯	1/4" X 4" LAG SCREWS	3	Used to fasten frame thru the sub-frame to wood buck.
✱	1/4" x 4" flat head wood screws	9	Used to fasten sill to wood buck, located at 5/8" from interior edge of sill
+	1/4" x 4" FLAT HEAD WOOD SCREWS	8	Used to fasten threshold to wood buck, at 3/8" from exterior edge of threshold.
^	1/4" X 4" FLAT HEAD WOOD SCREWS	4	Used to attach frame threshold to wood buck, at 7/8" from threshold exterior edge

NOTE: 1/4" DIAMETER SCREWS, USED AT HEADER AND SILL, MAY BE REPLACED WITH 1/4" DIAMETER POWER FASTENERS, INC. TAPPERS WHEN INSTALLING INTO CONCRETE OR MASONRY SUBSTRATES, AS LONG AS MINIMUM PENETRATION INTO SUBSTRATE IS 1-1/2".

MIAMI DADE COUNTY

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WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

TILLECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone : (305)871-1530 , Fax : (305)871-1531
e-mail: tilleco@aol.com
EB-0006719
WALTER A. TILLIT Jr. P. E.
FLORIDA Lic. # 44167

INSWING DOUBLE STEEL DOOR

MASTER SECURITY DOORS, INC.
702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

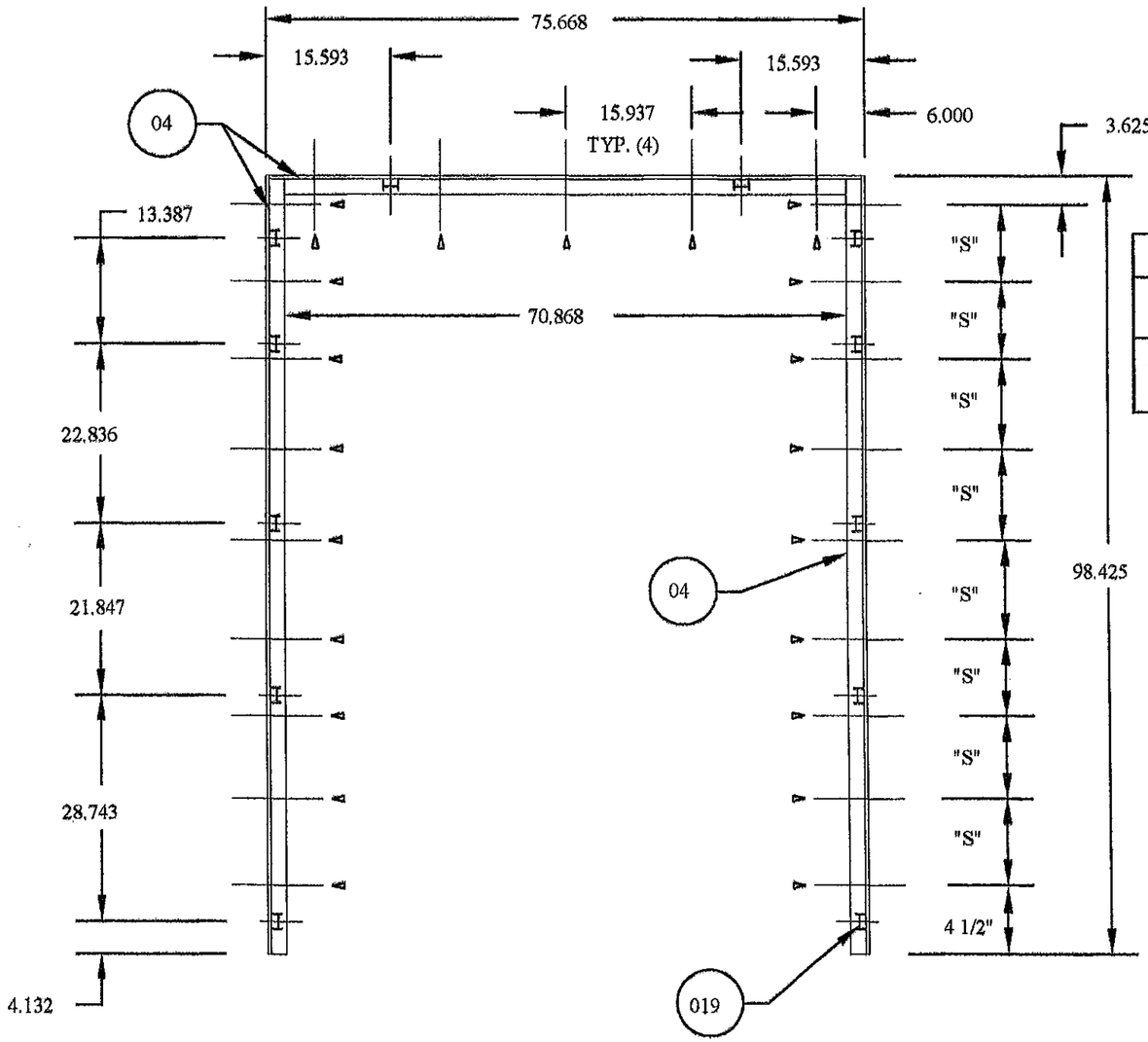
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
FRAME ASSEMBLY

DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
2 OF 23



FASTENER LEGEND			
	Description	Max. on center spacing	Use:
Δ	3/8" hex head lag screws with flat washers and 3" minimum embedment at jambs and head	8 1/2"	Used to fasten sub-frame to wood buck

NOTE: 3/8" DIAMETER LAG SCREWS MAY BE REPLACED WITH 3/8" DIAMETER POWER FASTENERS INC TAPPER ANCHORS WITH 1-1/2" MINIMUM PENETRATION INTO CONCRETE OR GROUTED FILLED CONCRETE BLOCK SUBSTRATE, SPACED AT "S" = 9" O.C.

MIAMI DADE COUNTY

PRODUCT REVISED
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TILTECO INC.
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Phone : (305)871-1530 . Fax : (305)871-1531
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PH (561)499-7558 FAX (561)499-7558

REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-182	02/29/12	DATE: 02/29/12

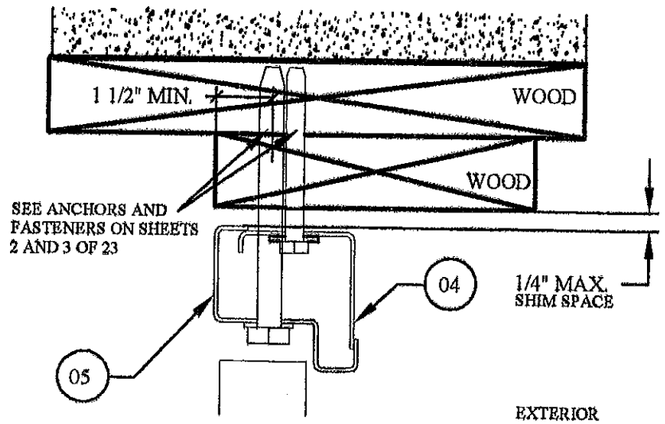
PRODUCT DESCRIPTION
SUB-FRAME ASSEMBLY

DRAWING No
12-058

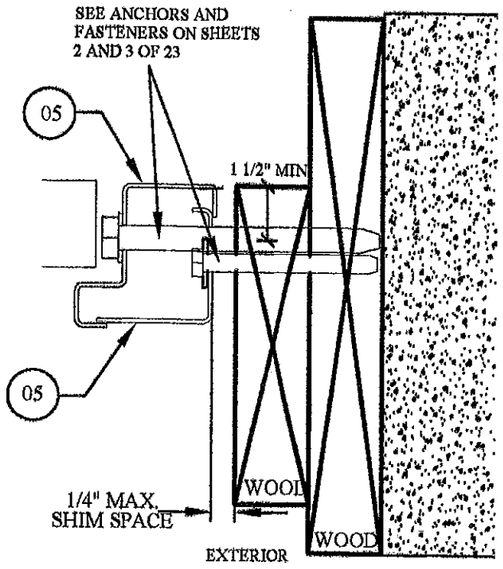
MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
3 OF 23

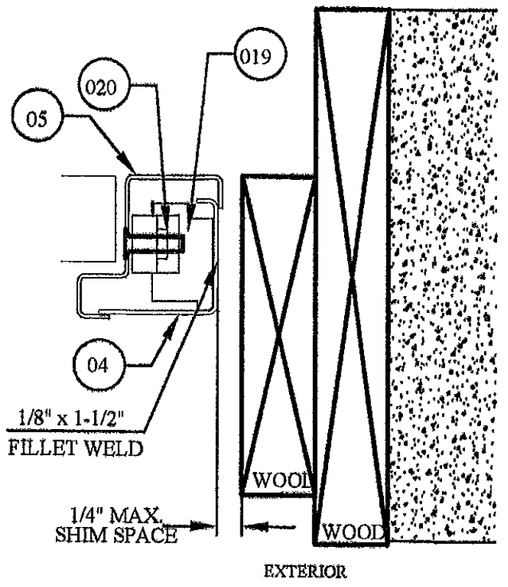
NOTE: NO WELDING WAS USED TO CONNECT SUB-FRAME (PART # 04) TO FRAME (PART # 05) AT SECTIONS FOR HEAD AND JAMBS.
TWO 2" X 4" P.T. MINIMUM WOOD BUCKS REQUIRED AT JAMB, HEADER AND SILL.
DOUBLE 2" X 4" CONNECTION TO SURROUNDING SUBSTRATE BY OTHERS.



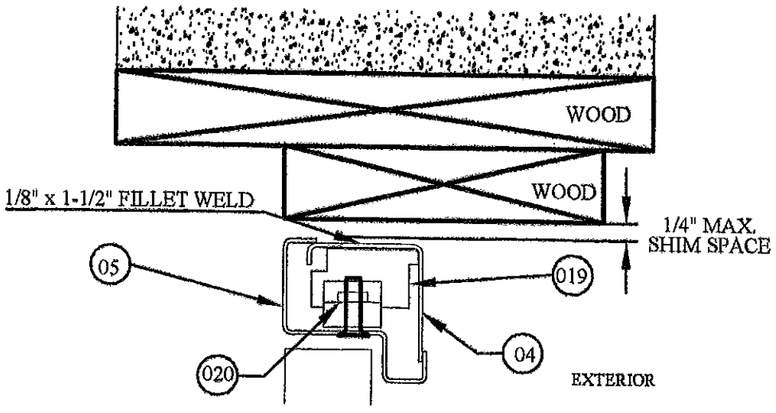
FRAME AND SUB-FRAME HEADER
SECTION A-A



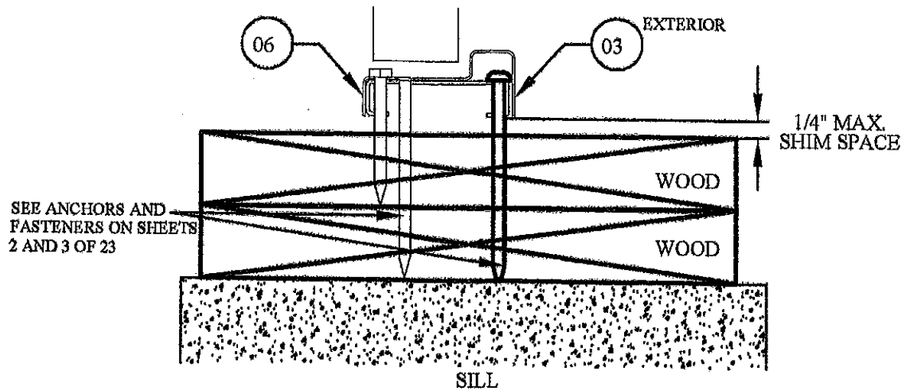
SECTION C-C



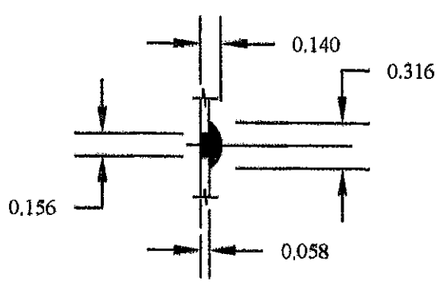
FRAME AND SUB-FRAME JAMBS



FRAME AND SUB-FRAME HEADER
SECTION A-A



SECTION B-B



WELD TYPE

WELDING SPECIFICATIONS
WELDS: INERT GAS SHIELDED WELDING TOT 3 BEADINGS.
GAS COMPOSITION: ARGON + CO2
MECHANICAL PROPERTIES: TENSILE STRENGTH 72,500 P.S.I.
YEILD STRENGTH 62,500 P.S.I., ULTIMATE ELONGATION 20%.
WELDING PARAMETERS: WIRE SPEED 2"/s, TENSION 25 v, CURRENT 220A
ELECTRODES TO BE AWS A 5.18, E70XX

MIAMI DADE COUNTY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0319.08
Expiration Date 04/11/2013
By
Miami Dade Product Control

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

TILTECO INC.
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INSWING DOUBLE STEEL DOOR

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702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

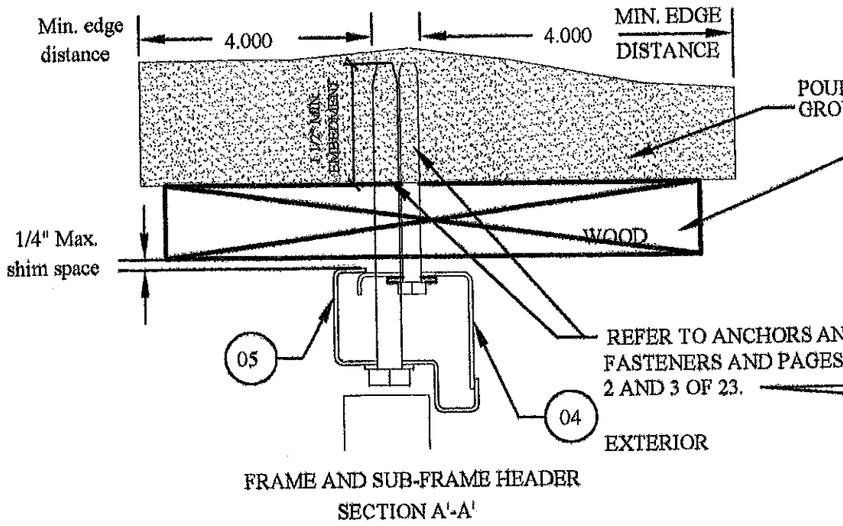
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
SECTIONS AT FRAME/SUB-FRAME ASSEMBLY

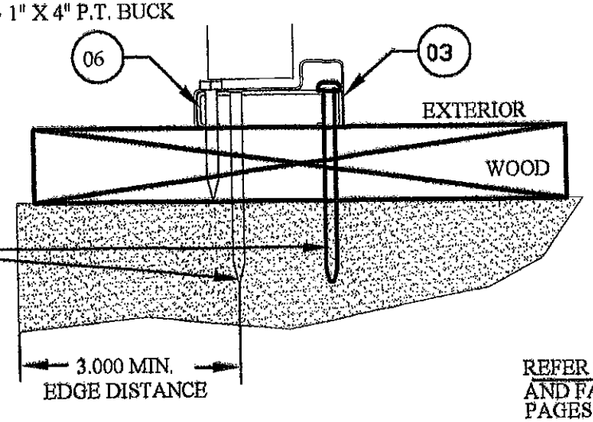
DRAWING No 12-058

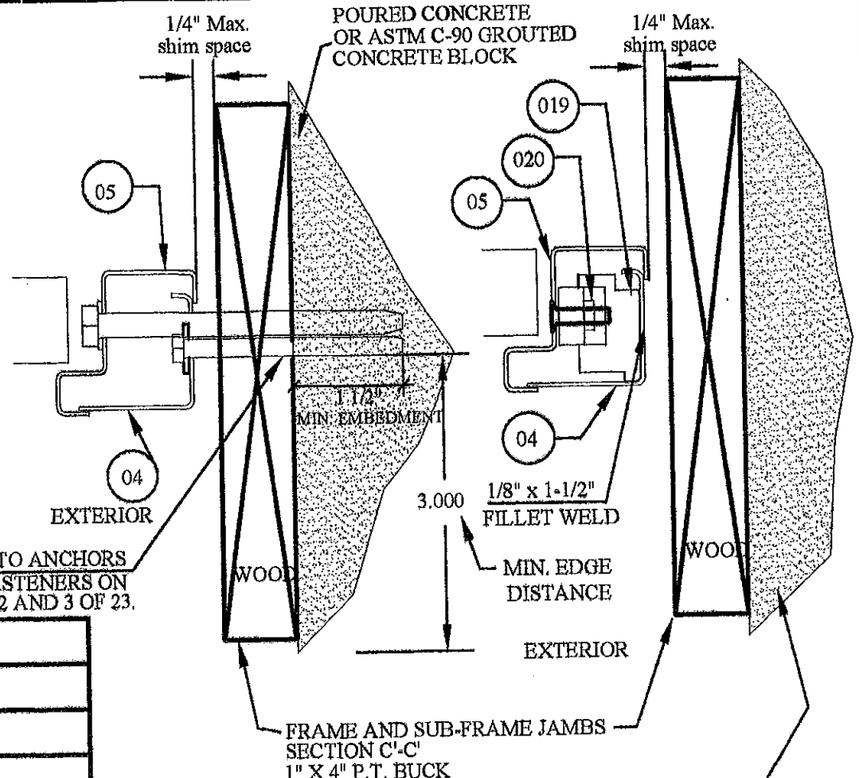
MODEL: EX - 4
DESCRIPTION: ID DOOR

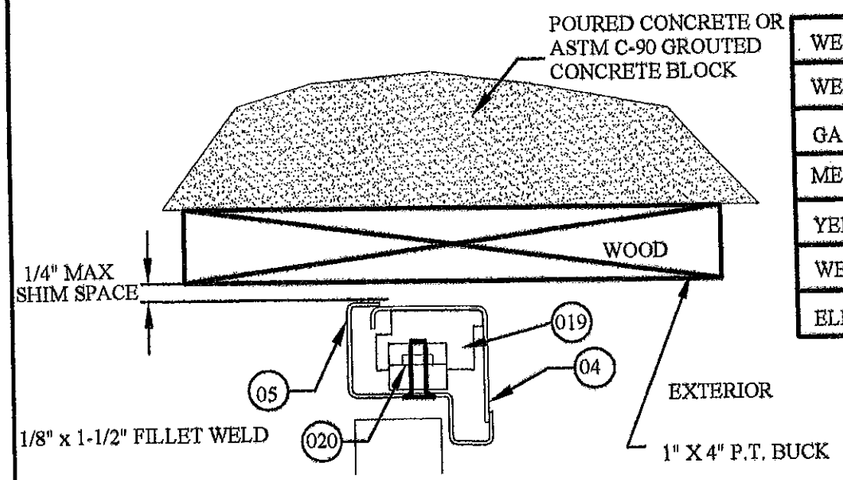
SHEET 4 OF 23



FRAME AND SUB-FRAME HEADER
SECTION A'-A'



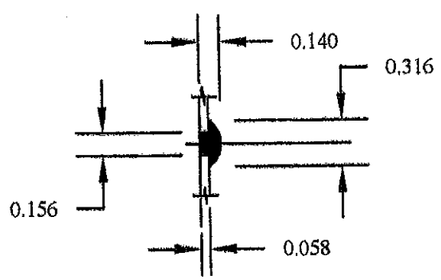




FRAME AND SUB-FRAME HEADER
SECTION A'-A'

WELDING SPECIFICATIONS
WELDS: INERT GAS SHIELDED WELDING TOT 3 BEADINGS.
GAS COMPOSITION: ARGON + CO2
MECHANICAL PROPERTIES: TENSILE STRENGTH 72,500 P.S.I.
YEILD STRENGTH 62,500 P.S.I., ULTIMATE ELONGATION 20%.
WELDING PARAMETERS: WIRE SPEED 2"/s, TENSION 25 v, CURRENT 220A
ELECTRODES TO BE AWS A 5.18, E70XX

NOTE: NO WELDING WAS USED TO CONNECT SUB-FRAME (PART# 04) TO FRAME (PART # 05) ATSECTIONS. FOR HEAD AND JAMBS.



WELD TYPE

MIAMI DADE COUNTY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0319.08
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INSWING DOUBLE STEEL DOOR

MASTER SECURITY DOORS, INC.
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DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

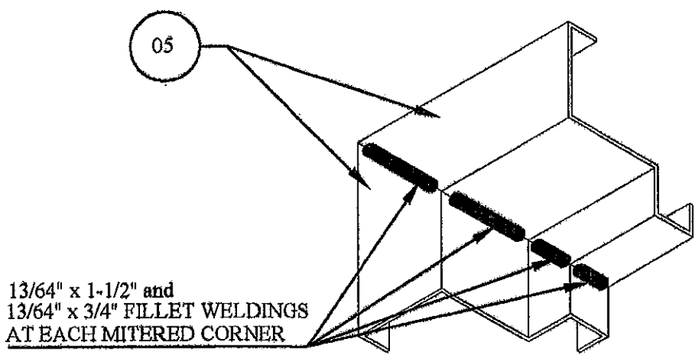
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-162	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
SECTIONS AT FRAME/SUB-FRAME ASSEMBLY

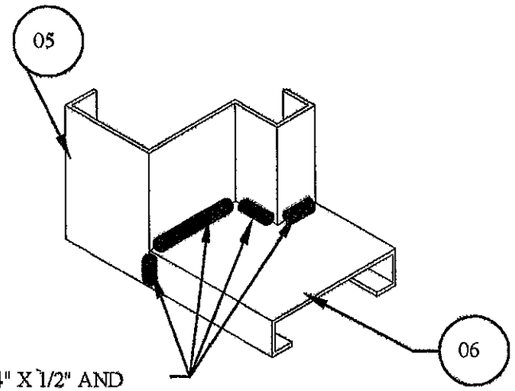
DRAWING No 12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET 5 OF 23

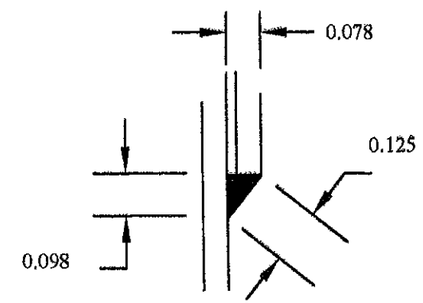


FRAME JAMB TO FRAME HEAD CONNECTION

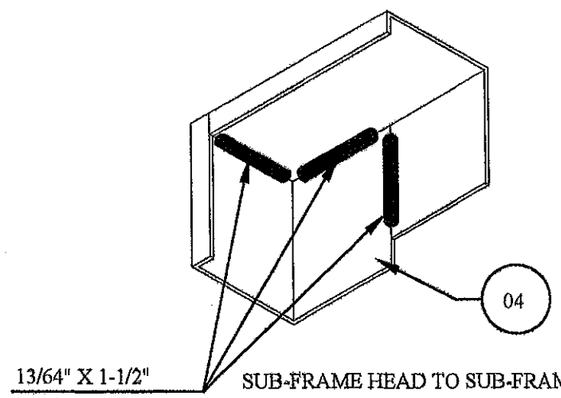


FRAME SILL TO FRAME JAMB CONNECTION

WELDING SPECIFICATIONS
WELDS: INERT GAS SHIELDED WELDING TOT 23 BEADINGS
GAS COMPOSITION: ARGON + CO2
MECHANICAL PROPERTIES: TENSILE STRENGTH 72,500 P.S.I.
YEILD STRENGTH 62,500 P.S.I., ULTIMATE ELONGATION 20%.
WELDING PARAMETERS: WIRE SPEED 2"/s, TENSION 25 v, CURRENT 220A
ELECTRODES TO BE AWS A 5.18, E70XX



WELD TYPE



SUB-FRAME HEAD TO SUB-FRAME JAMBS CONNECTION

MIAMI DADE COUNTY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0319.08
Expiration Date 04/11/2013
By
Miami Dade Product Control

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone : (305)871-1530 , Fax : (305)871-1531
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr. P. E.
FLORIDA Lic. # 44167

INSWING DOUBLE STEEL DOOR

MASTER SECURITY DOORS, INC.
702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

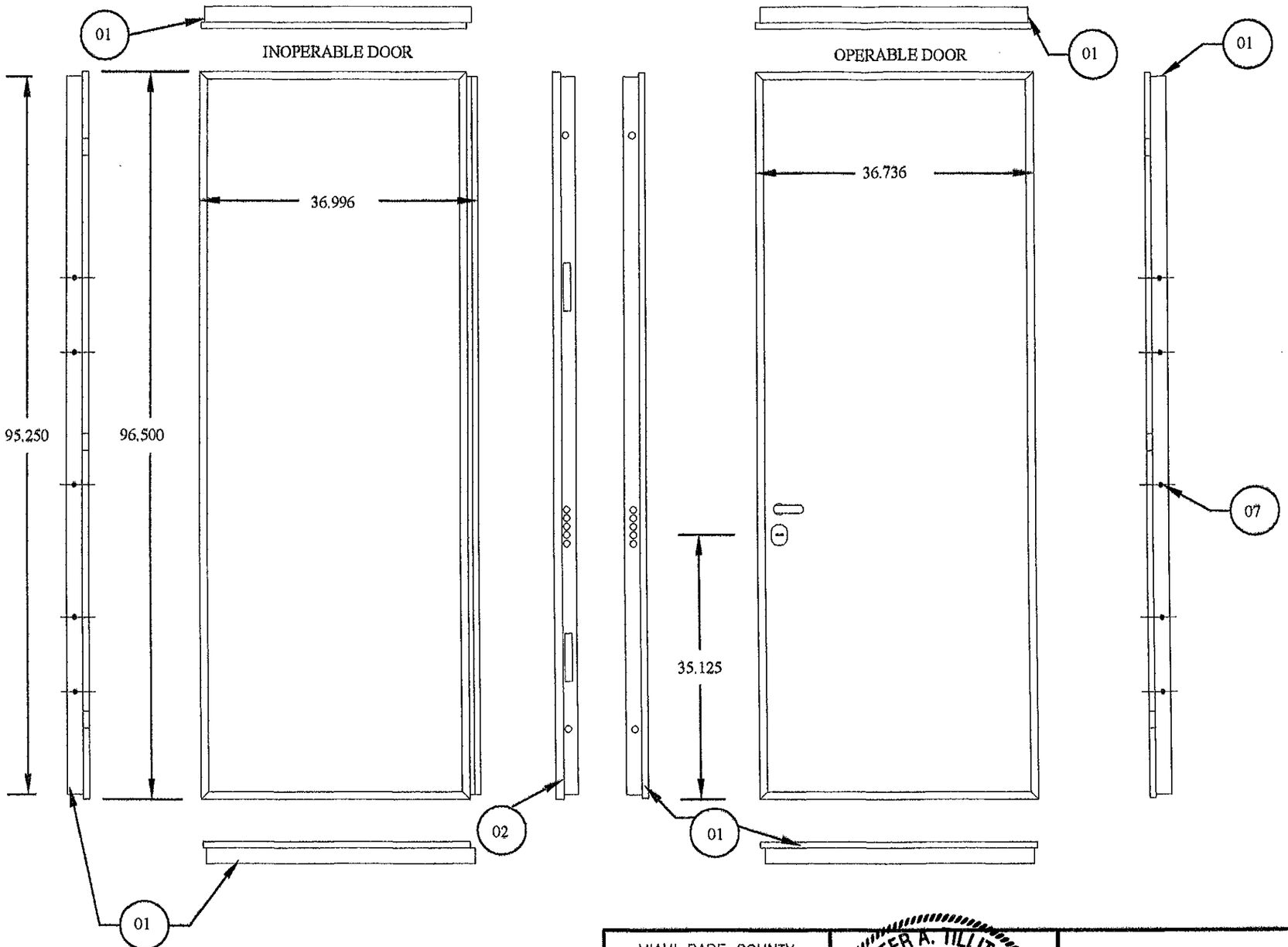
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
CORNERS ASSEMBLY

DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
6 OF 23



MIAMI DADE COUNTY

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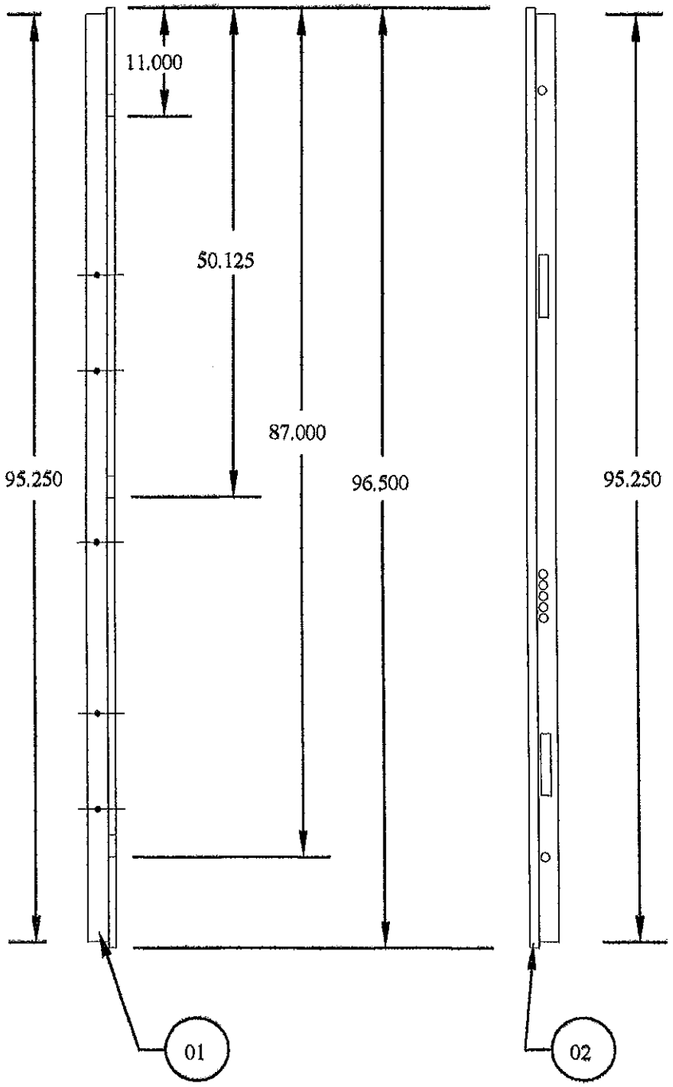
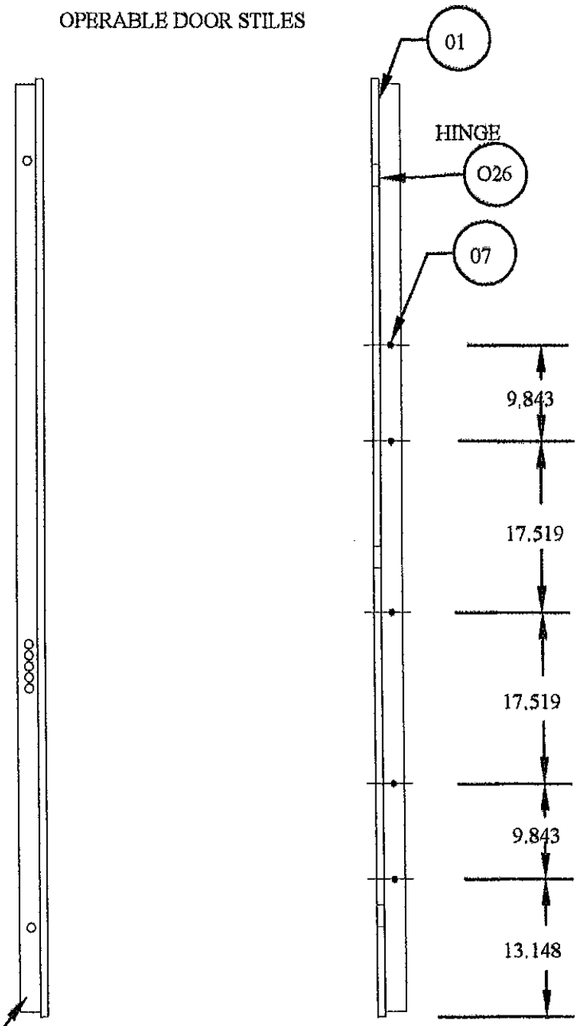
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12
PRODUCT DESCRIPTION: DOORS			DRAWING No: 12-058
MODEL: EX - 4 DESCRIPTION: ID DOOR			SHEET: 7 OF 23

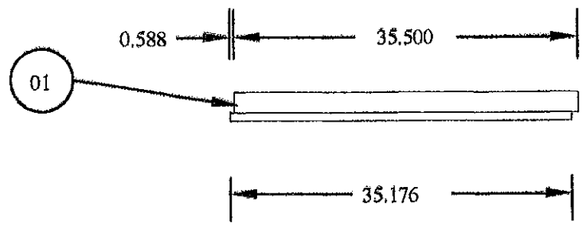
INOPERABLE DOOR STILES



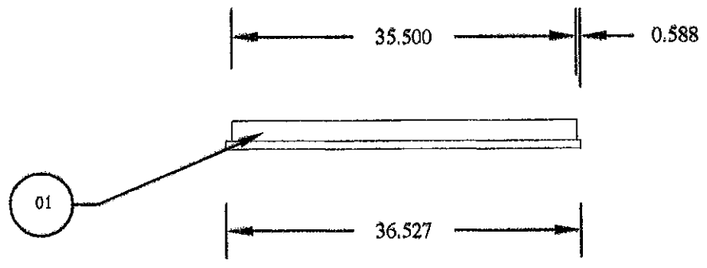
OPERABLE DOOR STILES



INOPERABLE DOOR TOP AND BOTTOM RAILS



OPERABLE DOOR TOP AND BOTTOM RAILS



MIAMI DADE COUNTY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0319-08
Expiration Date 04/11/2013
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INSWING DOUBLE STEEL DOOR

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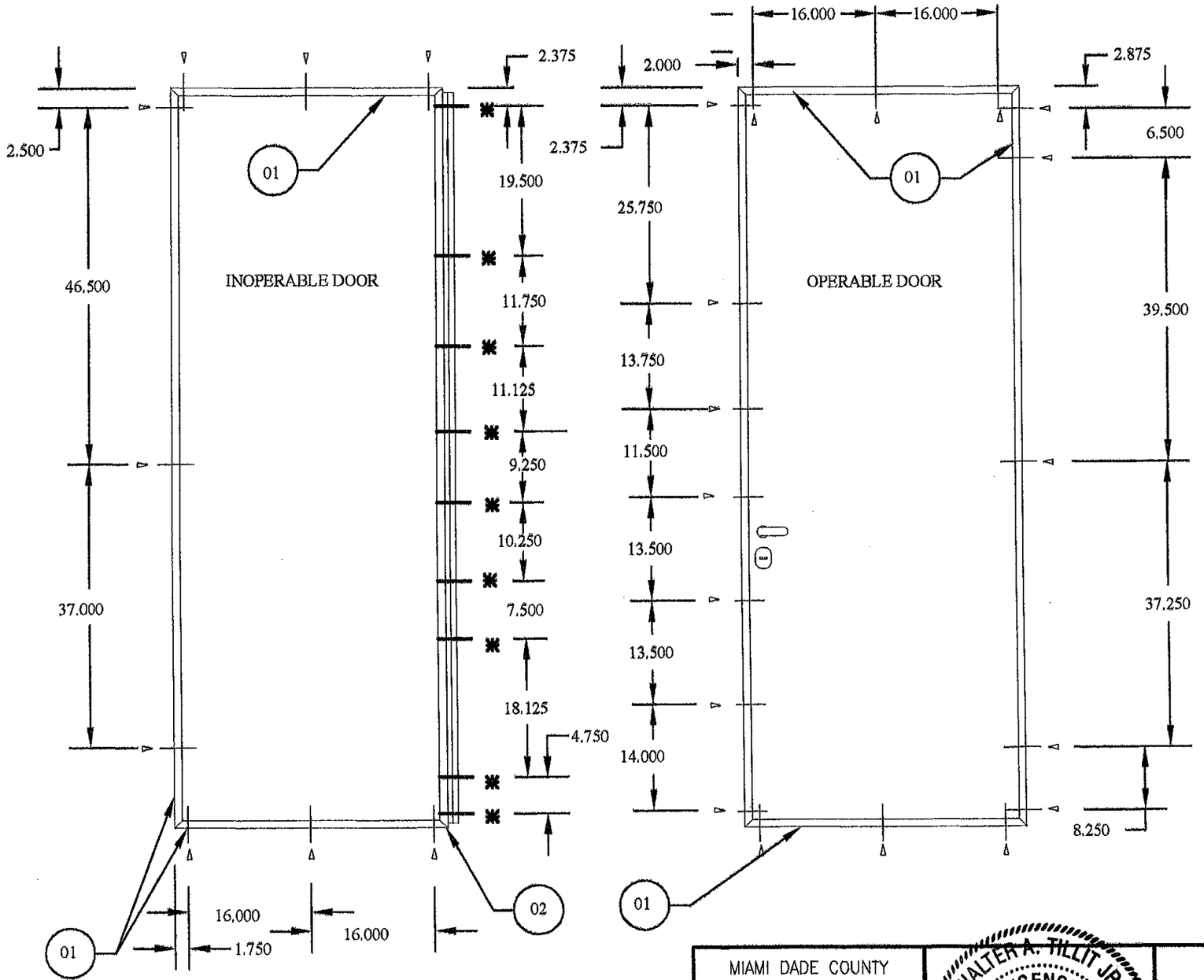
702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION DOOR STILES AND RAILS	DRAWING No 12-058
MODEL: EX - 4 DESCRIPTION: ID DOOR	SHEET 8 OF 23



STILES (PART # 01), TOP AND BOTTOM RAILS (PART # 01) AND ASTRAGAL (PART # 02), CONNECTIONS TO STEEL MAIN CASING, PARTS # 012, # 016 AND # 017.

FASTENER LEGEND		
	Description	Quantity
Δ	# 4 X 1/2" PAN HEAD PHILLIPS SMS	27
✱	# 8 X 1/2" PAN HEAD PHILLIPS SMS	11

MIAMI DADE COUNTY

PRODUCT REVISED
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REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

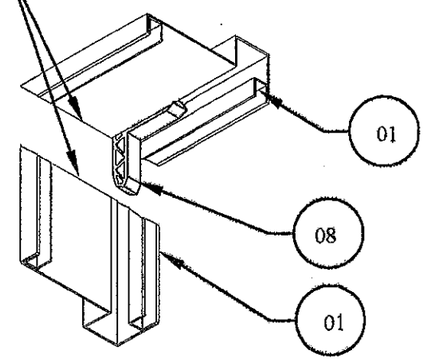
PRODUCT DESCRIPTION
DOORS

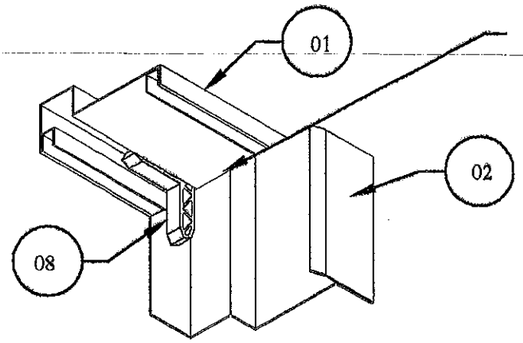
DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
9 OF 23

MITERED CORNERS FOR BOTH COMPONENTS (PART # 01)
MEETING AT JOINT

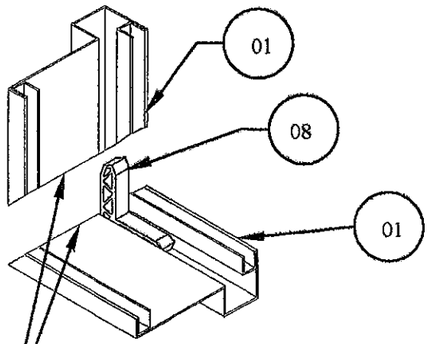


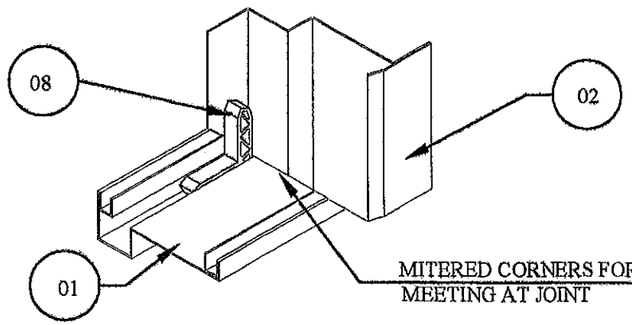


MITERED CORNERS FOR BOTH COMPONENTS (PART # 01 AND PART # 02)
MEETING AT JOINT

INOPERABLE DOOR ASTRAGAL CONNECTION TO TOP RAIL

DOOR STILE TO TOP RAIL CONNECTION





MITERED CORNERS FOR BOTH COMPONENTS (PART # 01 AND PART # 02)
MEETING AT JOINT

INOPERABLE DOOR ASTRAGAL CONNECTION TO BOTTOM RAIL

MITERED CORNERS FOR BOTH COMPONENTS (PART # 01)
MEETING AT JOINT

DOOR STILE TO BOTTOM RAIL CONNECTION

MIAMI DADE COUNTY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0319.08
Expiration Date 04/11/2013
By
Miami Dade Product Control

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

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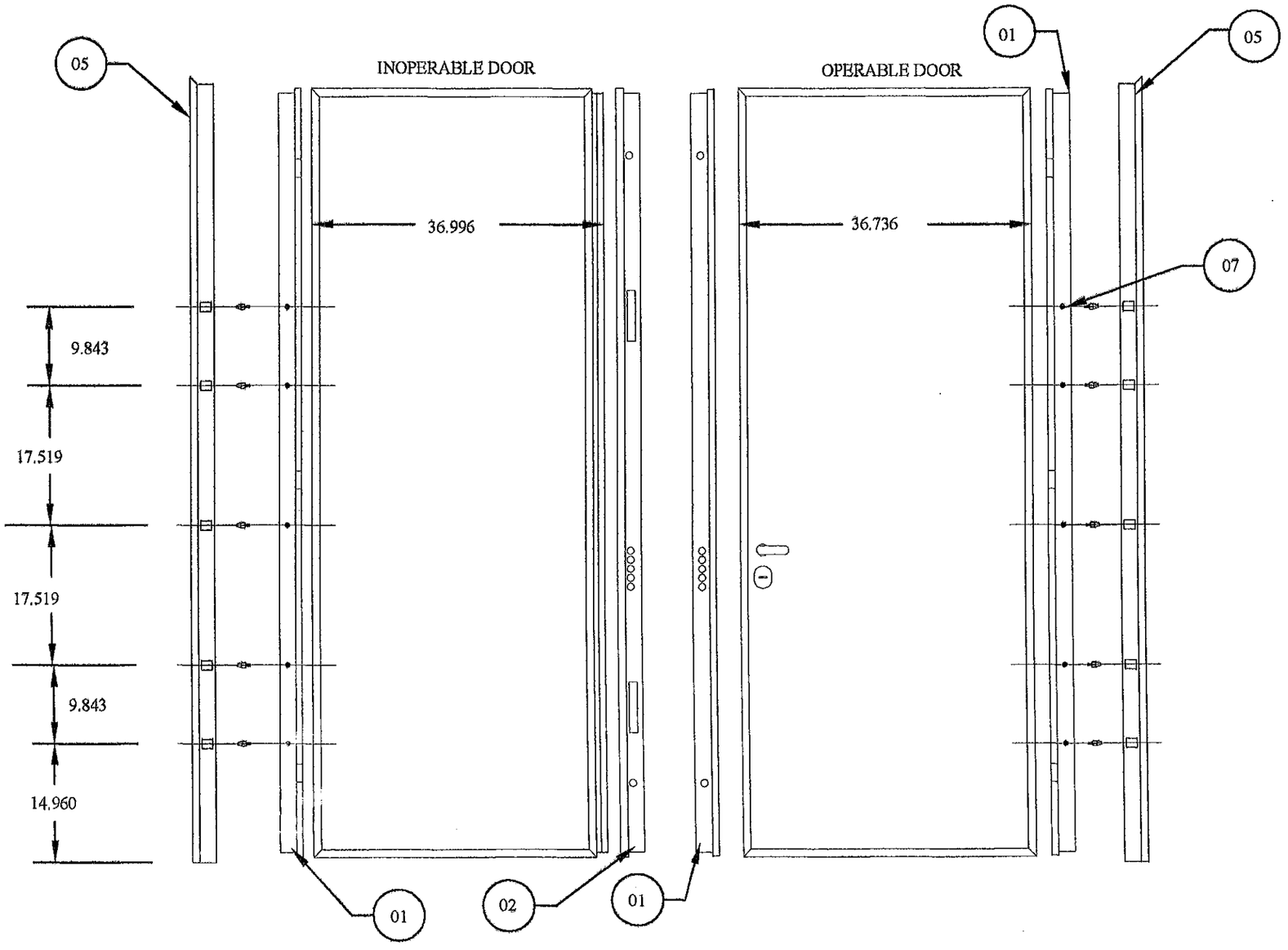
MASTER SECURITY DOORS, INC.
702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION CORNERS ASSEMBLY	DRAWING No 12-058
MODEL: EX - 4 DESCRIPTION: ID DOOR	SHEET 10 OF 23



MIAMI DADE COUNTY

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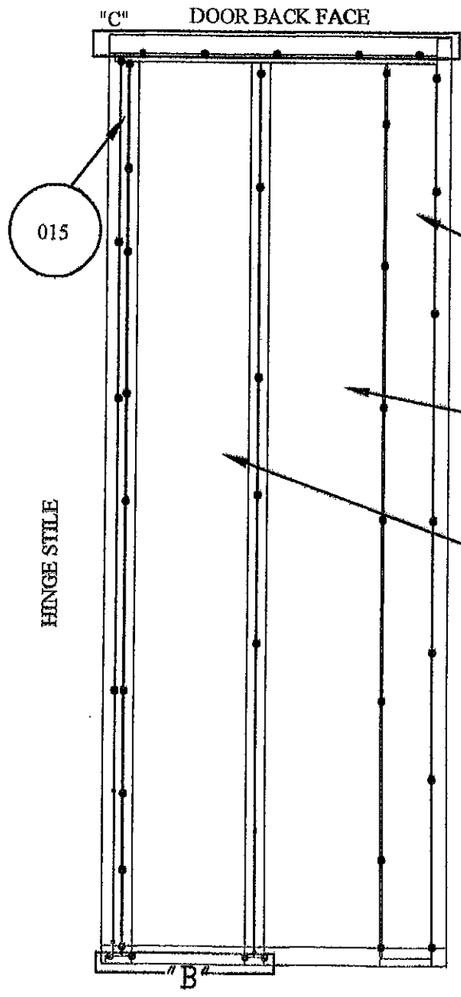
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

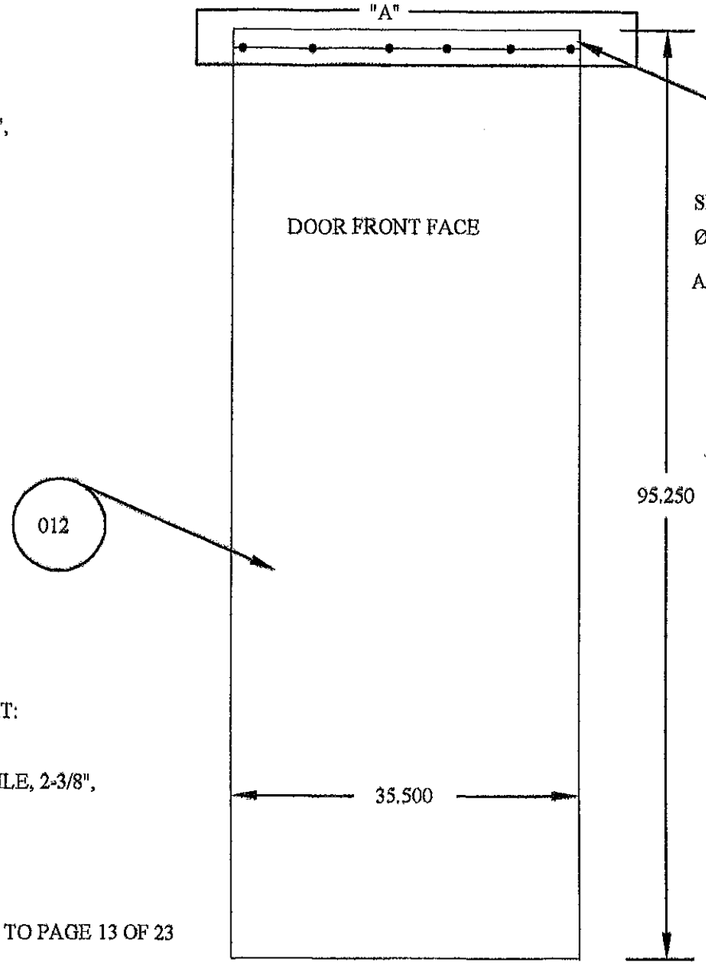
PRODUCT DESCRIPTION FIX BLOTS LOCATION	DRAWING No 12-058
MODEL: EX - 4 DESCRIPTION: ID DOOR	SHEET 11 OF 23



SECTION "C"
Ø1/4" SPOT WELDS LOCATED AT:
AT 3-3/8" FROM HINGE STILE, 6-1/4",
8-3/8", 7-1/2", 6-1/2".

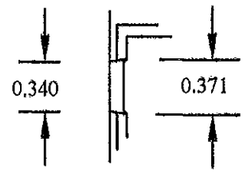
Ø1/4" SPOT WELDS LOCATED AT:
SECTION "B"
1 ROW AT 7/8" FROM HINGE STILE, 2-3/8",
11-1/2", 2-3/8".

INOPERABLE DOOR
NOTE:
FOR SECTIONS, REFERENCE TO PAGE 13 OF 23



SECTION "A"
Ø1/4" SPOT WELDS LOCATED AT:
AT 1" FROM HINGE STILE, 7-1/8", 7-7/8", 5-7/8", 6-1/2", 6-1/8".

WELDS: MULTIPLE IMPULSE SPOT WELDING TOT 54 SPOTS.
GAS COMPOSITION: ARGON + CO2
MECHANICAL PROPERTIES: TENSILE STRENGTH 72,500 P.S.I.
YEILD STRENGTH 62,250 P.S.I.
ALL ELECTRODES AWS A 5.18 E70XX



WELD TYPE

COLUMNS FROM HINGE STILE: Ø1/4" SPOT WELDS LOCATED AT:
FIRST COLUMN: AT 2-1/4" FROM BOTTOM, 15-1/2", 10-1/4", 30", 16", 18-7/8.
SECOND COLUMN: AT 1-3/4" FROM BOTTOM, 7-7/8", 7-7/8", 10-1/2", 19-1/2", 11", 14-1/2", 8-1/2", 10-3/4".
THIRD COLUMN: AT 1-1/4" FROM BOTTOM, 12-1/2", 19-1/4", 15-1/4", 12", 19-1/2", 11-5/8".
FOURTH COLUMN: AT 1-7/8" FROM BOTTOM, 9", 16-1/4", 18-5/8", 11-1/2", 14-1/2", 14-1/2", 5-1/4".
FIFTH COLUMN: AT 1-7/8" FROM BOTTOM, 17-1/4", 13", 13-1/2", 21-1/4", 12-1/2", 11-5/8".

MIAMI DADE COUNTY

PRODUCT REVISED
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WALTER A. TILLIT JR. LICENSE No 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

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MASTER SECURITY DOORS, INC.
702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

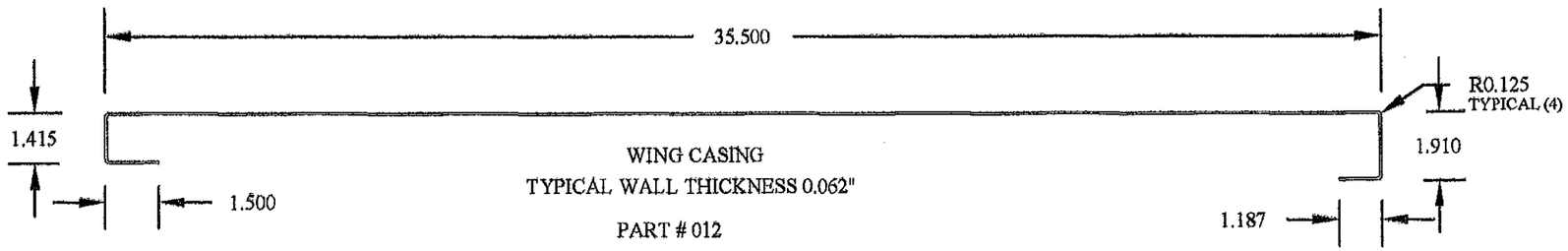
REV.No	DESCRIPTION	DATE	Drown by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
REINFORCEMENTS INOPERABLE DOOR

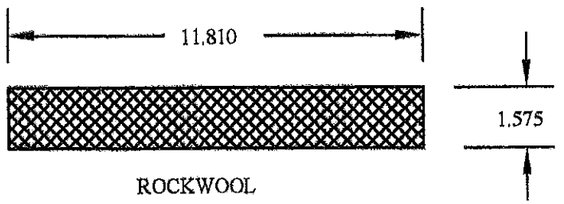
DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
12 OF 23

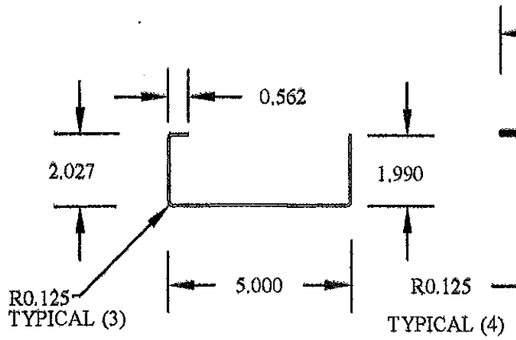


WING CASING
TYPICAL WALL THICKNESS 0.062"
PART # 012

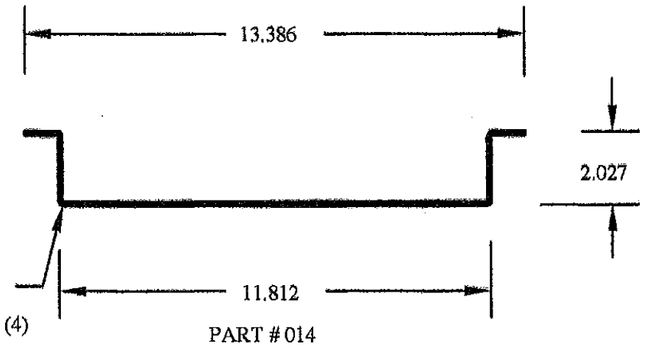


ROCKWOOL

ROCKWOOL SPECIFICATIONS:
MINERAL WOOL, MODEL TERVOL I 220,
MANUFACTURED BY TERMOLAN, ITALY;
WITH 3.6 P.S.I. COMPRESSIVE STRENGTH
PER ASTM C-165-83, AND 6.2 LB/CUBIC FEET DENSITY

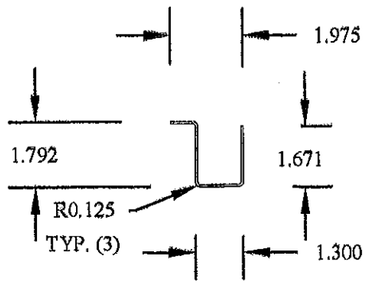


TYPICAL WALL THICKNESS 0.062"
PART # 013

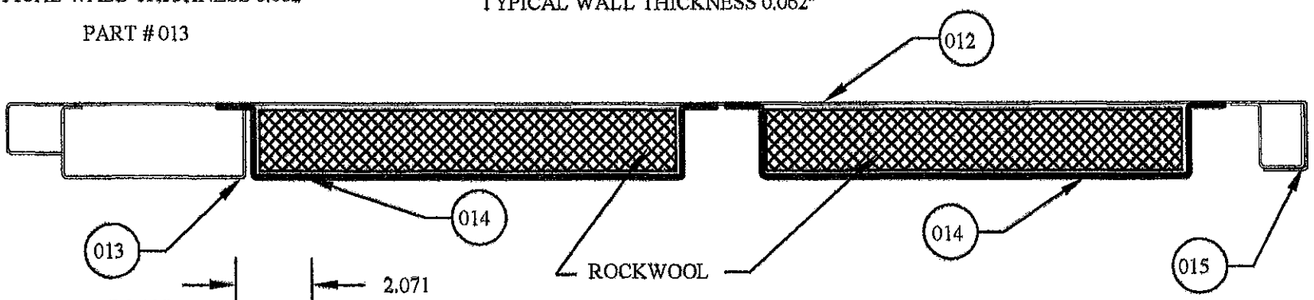


PART # 014

TYPICAL WALL THICKNESS 0.062"



TYPICAL WALL THICKNESS 0.062"
PART # 015



TYPICAL WALL THICKNESS 0.062"
PART # 016

MIAMI DADE COUNTY

PRODUCT REVISED
as complying with the Florida
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PH (561)499-7558 FAX (561)499-7558

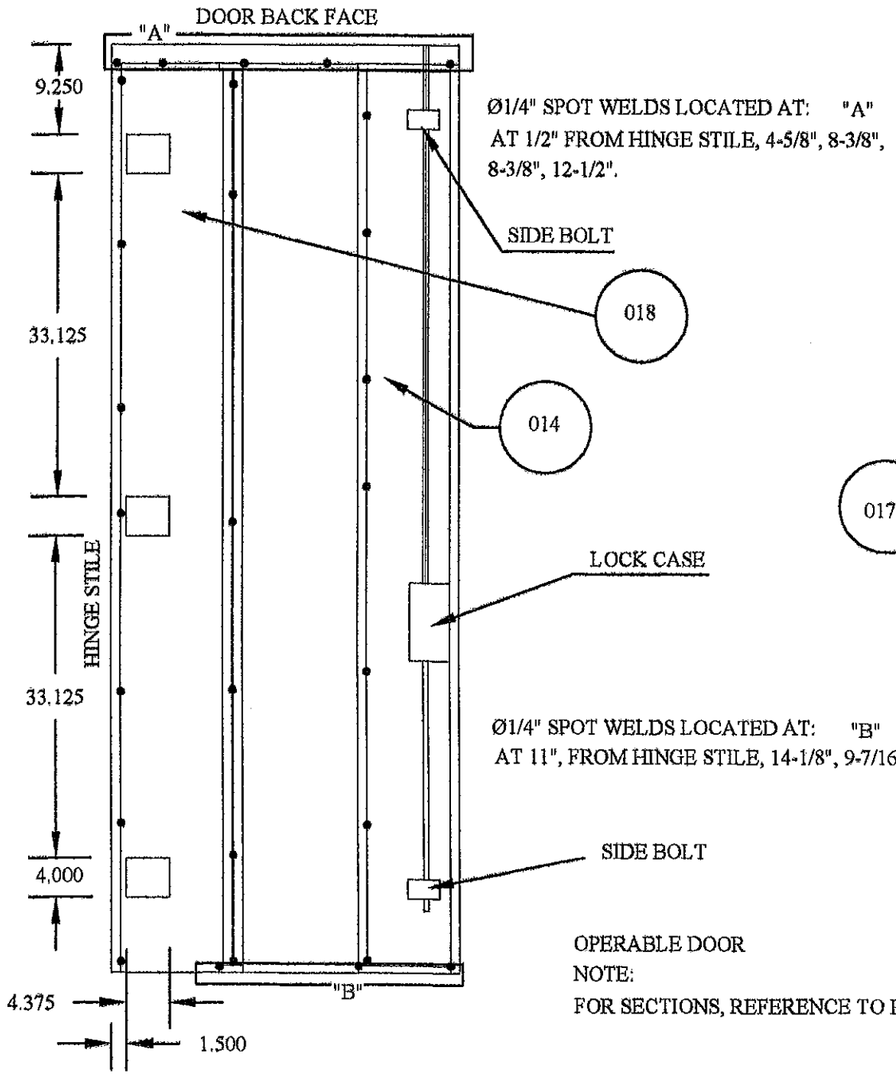
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

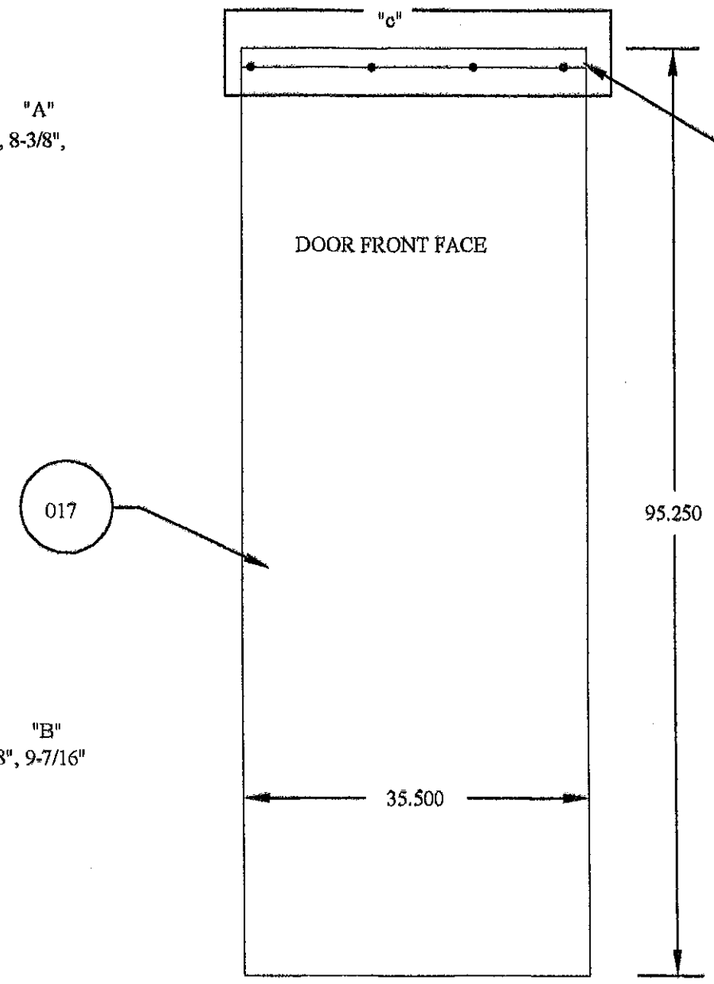
PRODUCT DESCRIPTION
INOPERABLE DOOR REINFORCEMENTS

DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
13 OF 23

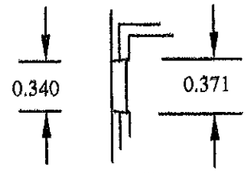




Ø1/4" SPOT WELDS LOCATED AT: "C"
AT 2-5/16" FROM HINGE STILE, 9-1/4", 10-1/2", 12-1/2"

016

WELDS: MULTIPLE IMPULSE SPOT WELDING TOT 54 SPOTS.
GAS COMPOSITION: ARGON + CO2
MECHANICAL PROPERTIES: TENSILE STRENGTH 72,500 P.S.I.
YEILD STRENGTH 62,250 P.S.I.
ALL ELECTRODES AWS A 5.18 E70XX



WELD TYPE

OPERABLE DOOR
NOTE:
FOR SECTIONS, REFERENCE TO PAGE 15 OF 23

COLUMNS FROM HINGE STILE: Ø1/4" SPOT WELDS LOCATED AT:
FIRST COLUMN: 1-1/8" FROM BOTTOM, 14-1/4", 13-1/2", 18-1/2", 10-7/8", 16-3/4"
SECOND COLUMN: 1-1/4" FROM BOTTOM, 11", 17", 17-1/4", 33-1/2", 11-1/4"
THIRD COLUMN: 1-1/4" FROM BOTTOM, 14", 15-3/4", 19", 11", 15", 12".

MIAMI DADE COUNTY
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No/ 12-0319.08
Expiration Date 04/11/2013
By
Miami Dade Product Control

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone : (305)871-1830 , Fax : (305)871-1831
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr. P. E.
FLORIDA Lic. # 44167

INSWING DOUBLE STEEL DOOR

MASTER SECURITY DOORS, INC.
702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

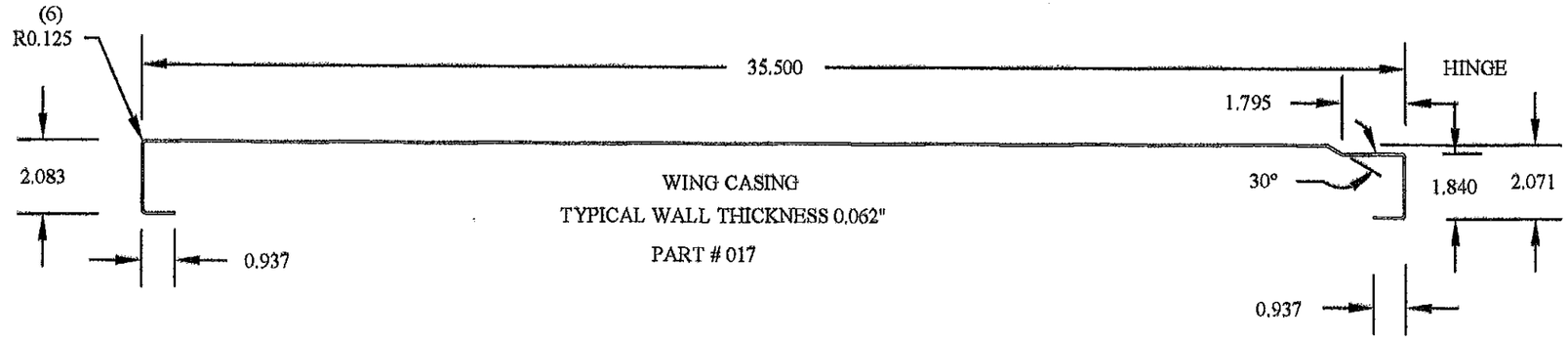
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
OPERABLE DOOR REINFORCEMENTS

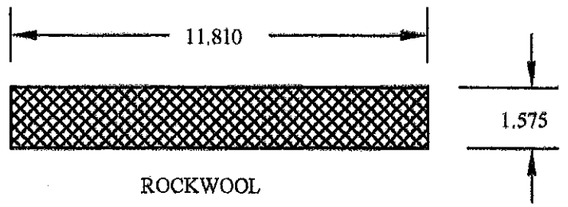
DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
14 OF 23

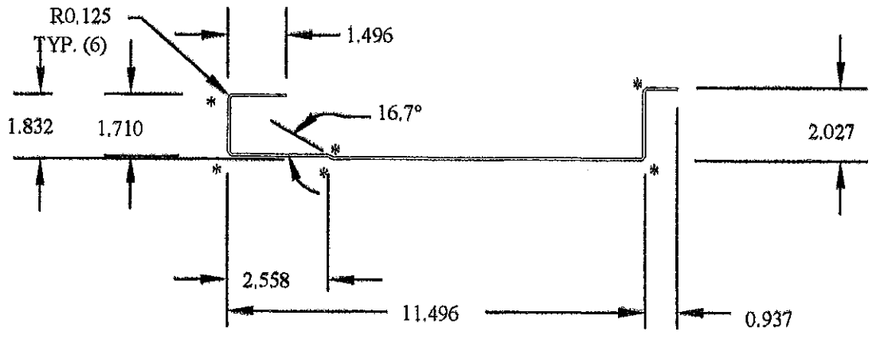


WING CASING
TYPICAL WALL THICKNESS 0.062"
PART # 017

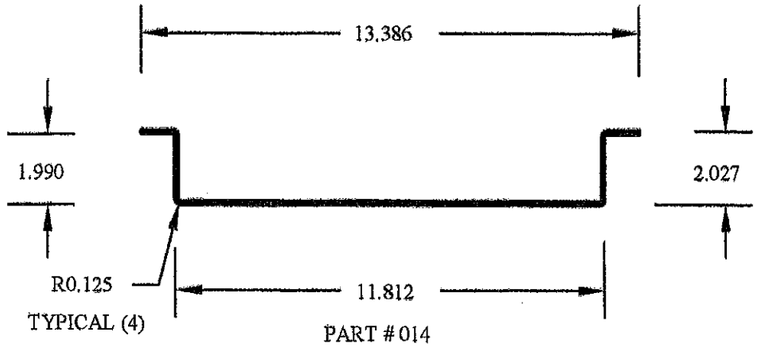


ROCKWOOL

ROCKWOOL SPECIFICATIONS:
MINERAL WOOL, MODEL TERVOL I 220,
MANUFACTURED BY TERMOLAN, ITALY;
WITH 3.6 P.S.I. COMPRESSIVE STRENGTH
PER ASTM C-165-83, AND 6.2 LB/CUBIC FEET DENSITY

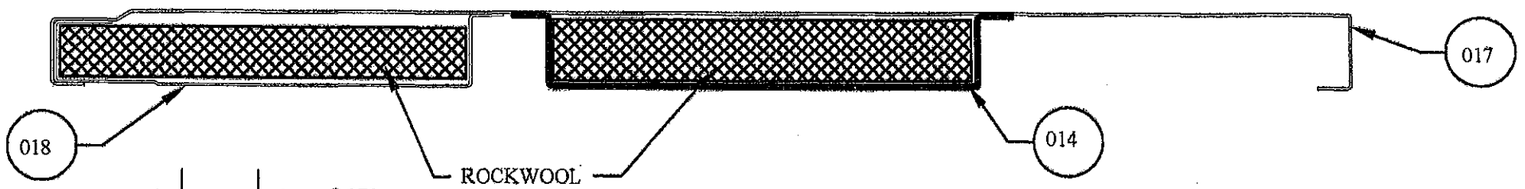


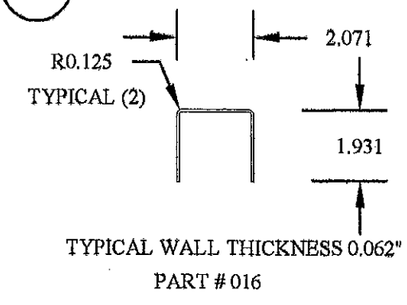
TYPICAL WALL THICKNESS 0.062"
PART # 018



PART # 014

TYPICAL WALL THICKNESS 0.062"





TYPICAL WALL THICKNESS 0.062"
PART # 016

MIAMI DADE COUNTY

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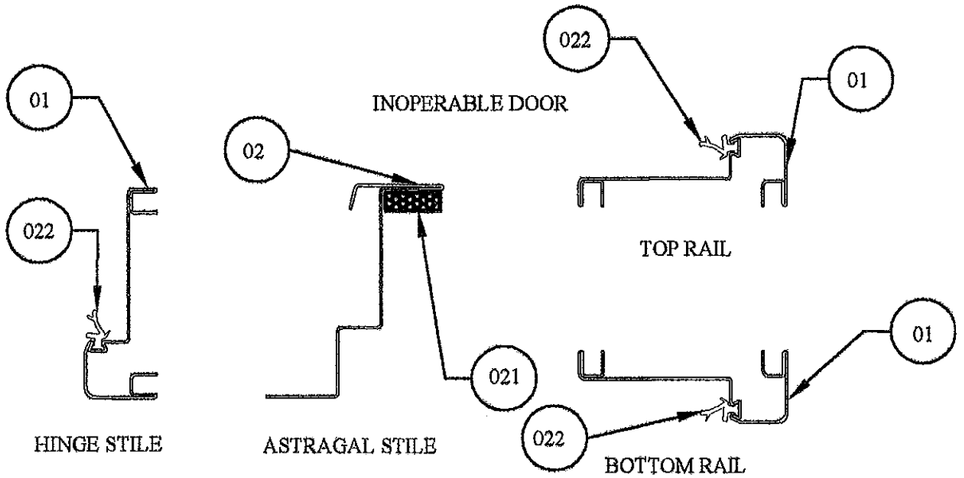
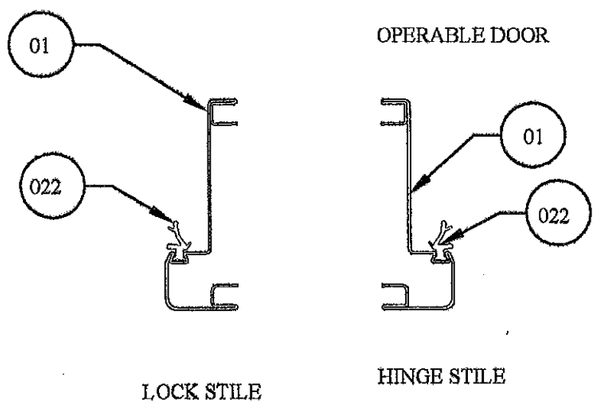
INSWING DOUBLE STEEL DOOR

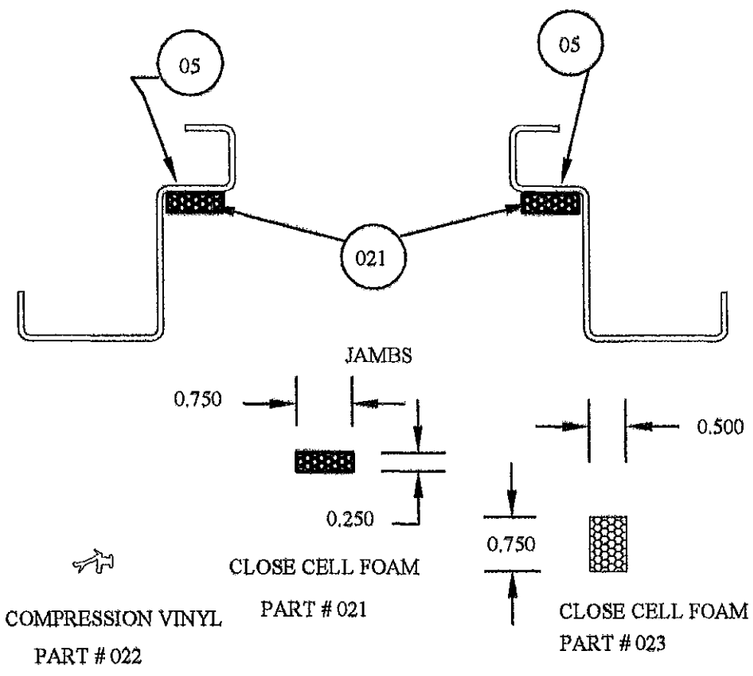
MASTER SECURITY DOORS, INC.
702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

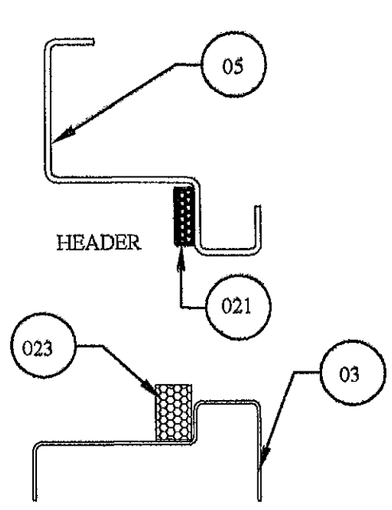
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION OPERABLE DOOR REINFORCEMENTS	DRAWING No 12-058
MODEL: EX - 4 DESCRIPTION: ID DOOR	SHEET 15 OF 23









MIAMI DADE COUNTY

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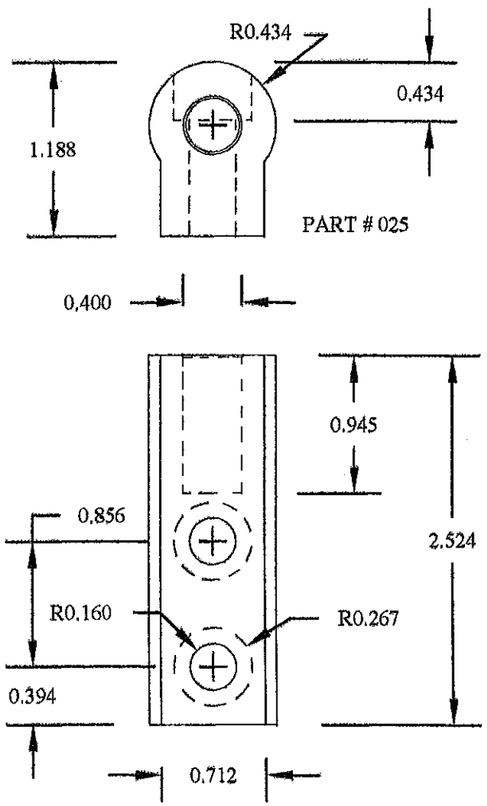
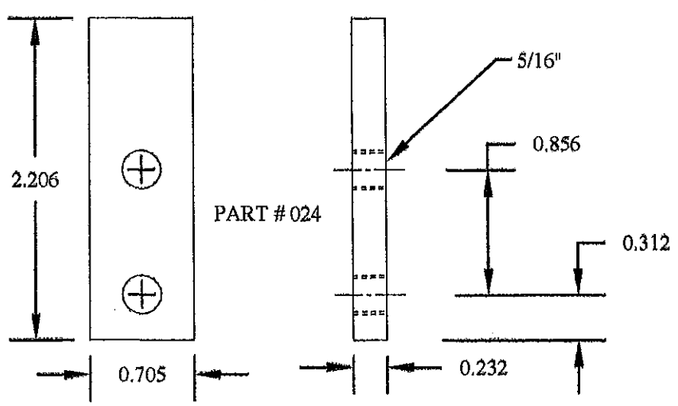
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

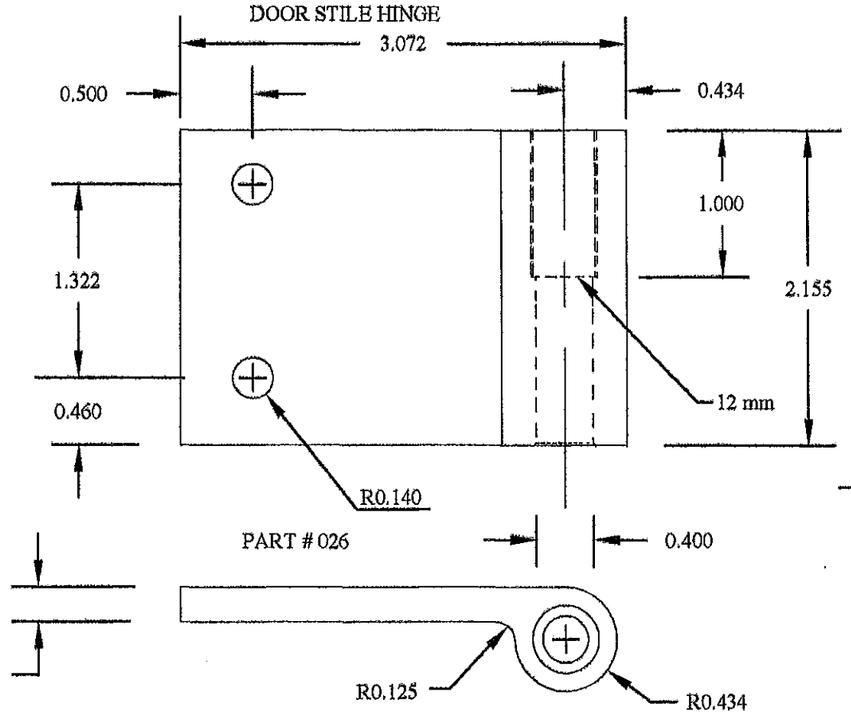
PRODUCT DESCRIPTION WEATHER STRIPS	DRAWING No 12-058
MODEL: EX - 4 DESCRIPTION: ID DOOR	SHEET 16 OF 23

JAMB FRAME HINGE

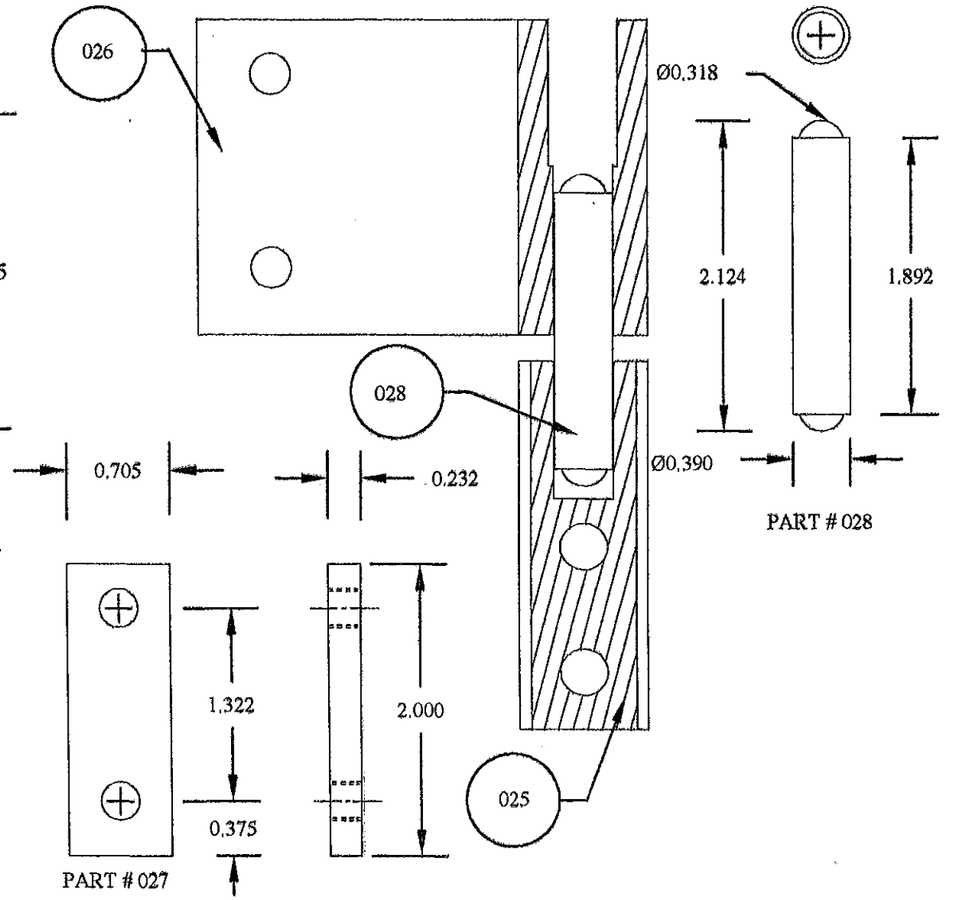




DOOR STILE HINGE



PART # 026



PART # 028

PART # 027

MIAMI DADE COUNTY

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INSWING DOUBLE STEEL DOOR

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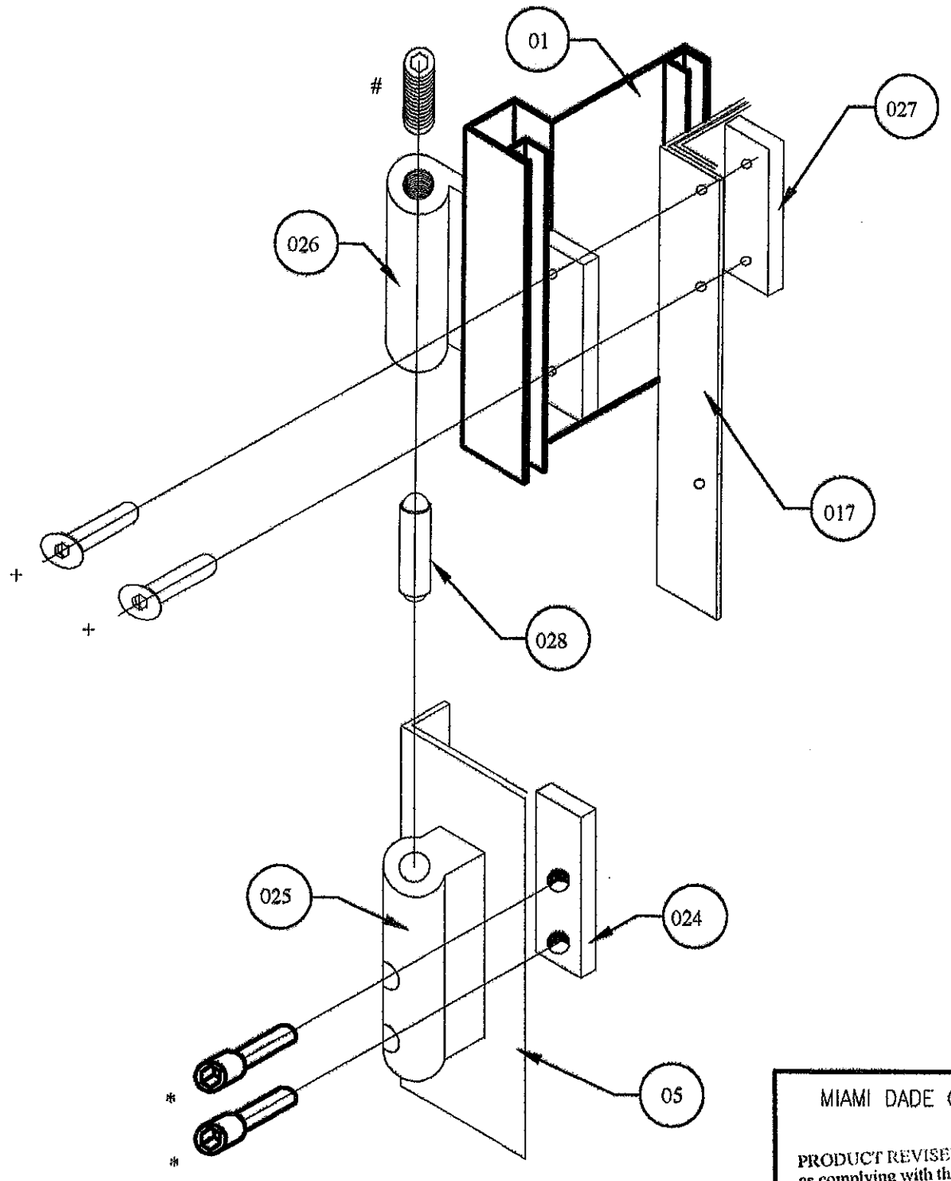
PH (561)499-7558 FAX (561)499-7558

REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION HINGES	DRAWING No 12-058
MODEL: EX - 4 DESCRIPTION: ID DOOR	SHEET 17 OF 23



FASTENER LEGEND		
	DESCRIPTION	QUANTITY
*	5/16" X 1-3/16" SOCKET HEAD CAL SCREW	12
+	5/16" X 0,654" STAR FLAT HEAD SCREW	12
#	15/32" X 0.981" SET SCREW	6

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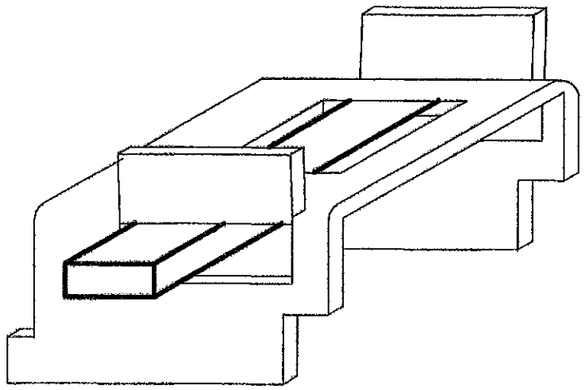
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
HINGE ASSEMBLY

DRAWING No
12-058

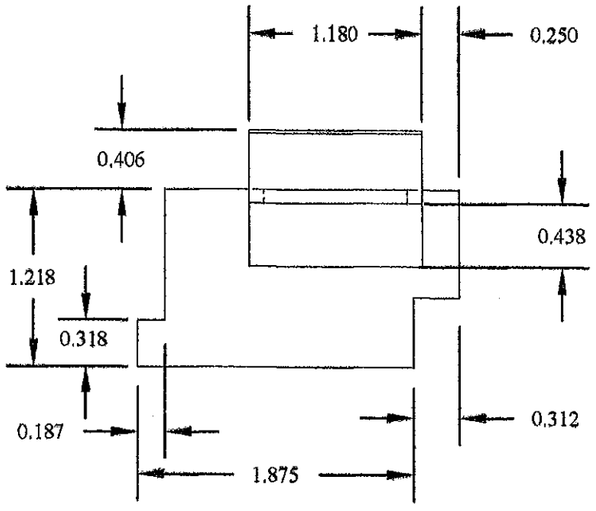
MODEL: EX - 4
DESCRIPTION: ID DOOR

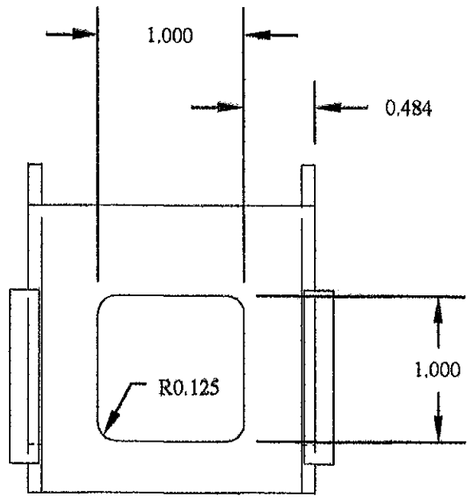
SHEET
18 OF 23

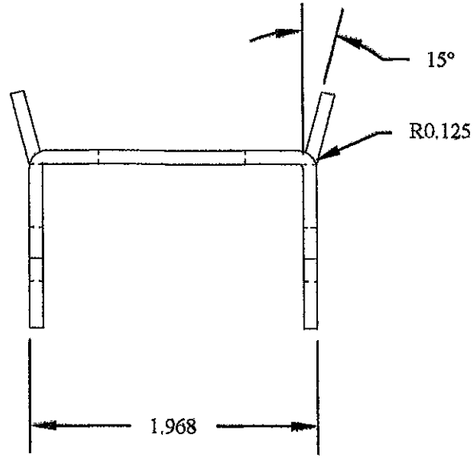


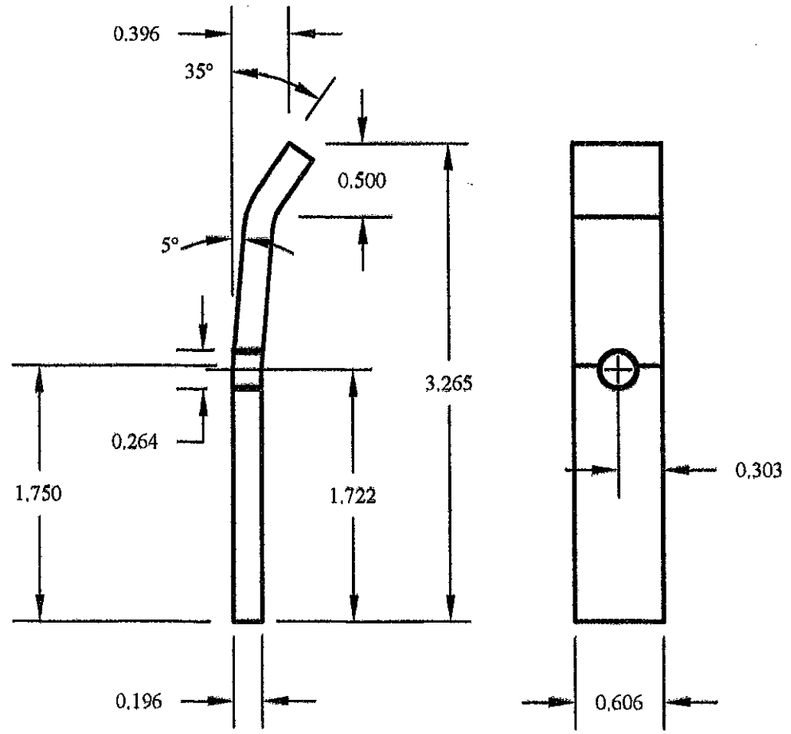
RETENTION HOUSING
PART # 019

TYPICAL WALL THICKNESS 0.093"









RETENTION CLIP
PART # 020

MIAMI DADE COUNTY

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INSWING DOUBLE STEEL DOOR

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702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

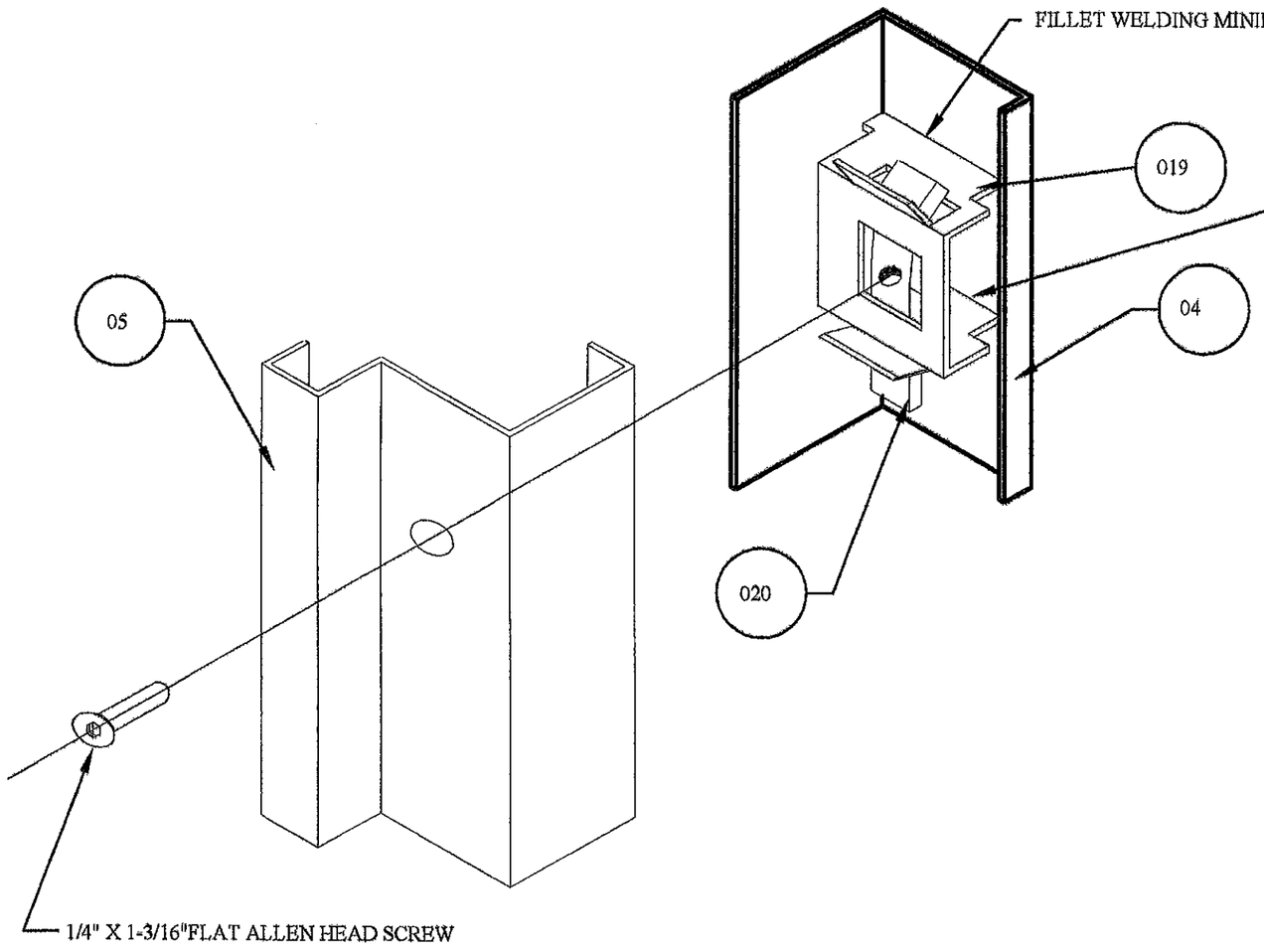
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
RETENTION CLIP / RETENTION HOUSING

DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
19 OF 23



FRAME TO SUB-FRAME ASSEMBLY

WELDS: INERT GAS SHIELDED WELDING TOT 3 BEADINGS.
GAS COMPOSITION: ARGON + CO2
MECHANICAL PROPERTIES: TENSILE STRENGTH 72,500 P.S.I.
YEILD STRENGTH 62,250 P.S.I.
WELDING PARAMETERS: WIRE SPEED 2"/s, TENSION 25 v, CURRENT 220A
ALL ELECTRODES AWS A 5.18 E70XX

MIAMI DADE COUNTY

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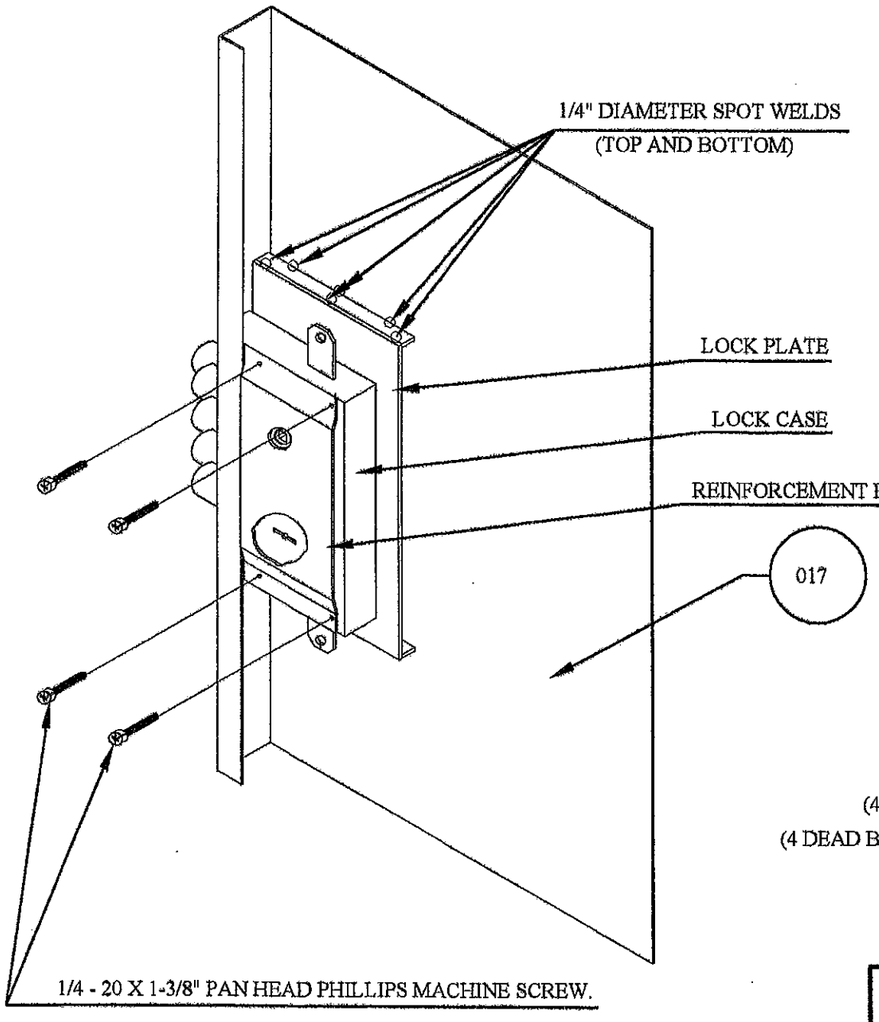
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
FRAME TO SUB-FRAME ASSEMBLY

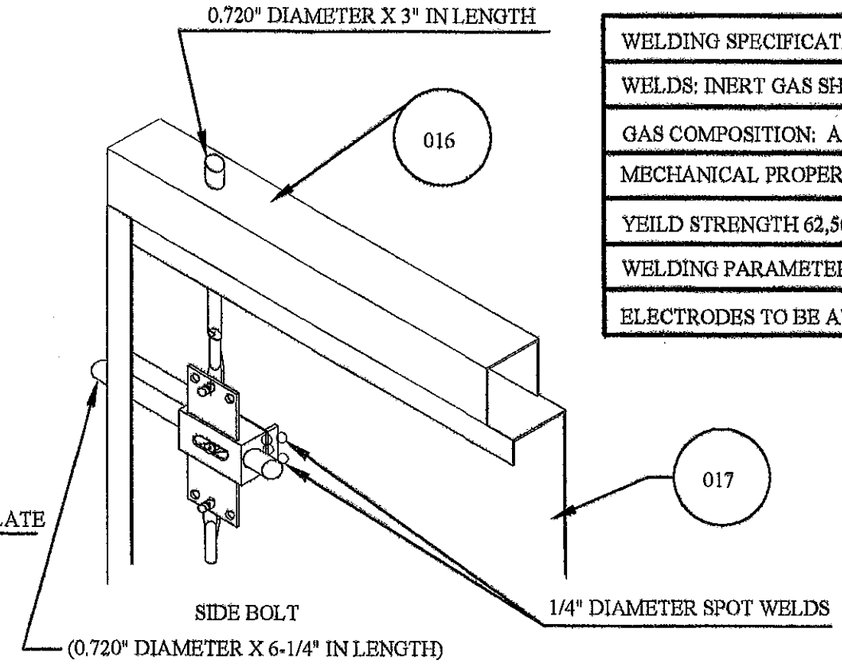
DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
20 OF 23



DOUBLE BIT KEY LOCK CASE



CISA LOCK
(4 POINT LOCK)
(4 DEAD BOLTS + 1 LATCH BOLT)

WELDING SPECIFICATIONS
WELDS: INERT GAS SHIELDED WELDING TOT 3 BEADINGS.
GAS COMPOSITION: ARGON + CO2
MECHANICAL PROPERTIES: TENSILE STRENGTH 72,500 P.S.I.
YEILD STRENGTH 62,500 P.S.I., ULTIMATE ELONGATION 20%.
WELDING PARAMETERS: WIRE SPEED 2"/s, TENSION 25 v, CURRENT 220A
ELECTRODES TO BE AWS A 5.18, E70XX

MIAMI DADE COUNTY

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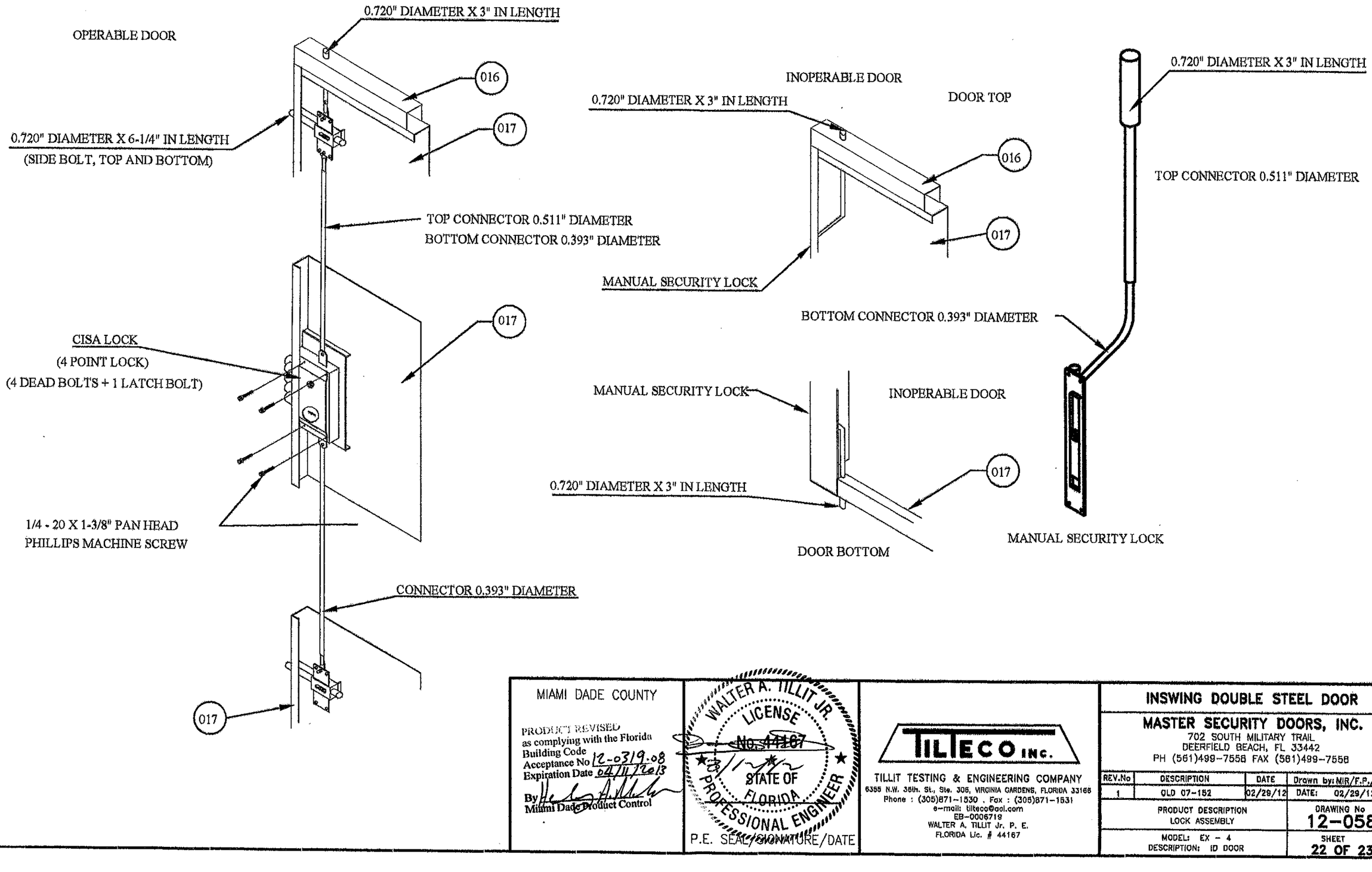
REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
LOCK ATTACHMENT TO WING CASING

DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
21 OF 23



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REV.No	DESCRIPTION	DATE	Drawn by: MR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
LOCK ASSEMBLY

DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
22 OF 23

BILL OF MATERIALS

DESCRIPTION	DRAWING #	SHEET #	PART #
DOOR STILES	MOL-200		01
DOOR TOP AND BOTTOM RAILS	MOL-200		01
ASTRAGAL STILE	MOL-201		02
FRAME THRESHOLD	MOL-202		03
SUB-FRAME HEADER	MOL-203		04
SUB-FRAME JAMBS	MOL-203		04
FRAME JAMBS	MOL-204		05
FRAME HEADER	MOL-204		05
FRAME SILL	MOL-205		06
FIX BLOTS	MOL-206		07
DOOR CORNER KEY	MOL-207		08
INOPERABLE DOOR MAIN CASING	MOL-001	12, 13	012
VERTICAL REINFORCEMENT	MOL-001	12, 13	013
VERTICAL REINFORCEMENT	MOL-001	12, 13	014
VERTICAL REINFORCEMENT	MOL-001	12, 13	015
TOP HORIZONTAL REINFORCEMENT	MOL-001	12, 13	016
OPERABLE DOOR MAIN WING CASING	MOL-001	14, 15	017
VERTICAL REINFORCEMENT	MOL-001	14, 15	018
WEATHER-STRIPPING		16	
CLOSE CELL FOAM (3/4" X 1/4")	MOL-001	16	021
COMPRESSION VINYL	MOL-001	16	022
CLOSE CELL FOAM (3/4" X 1/2")	MOL-001	16	023
RETENTION HOUSING	MOL-001	19	019
RETENTION CLIP	MOL-001	19	020

HARDWARE	QUANTITY	SHEET #	PART #
CISA (4) POINT LOCK	1	21, 22	INCLUDED ON MANUFACTURER'S INFORMATION
MANUAL SECURITY LOCK	2	22	
5" Butt hinges	6	17, 18	HINGE TO FRAME PART # 025 HINGE TO DOOR STILE PART # 026 STEEL BAR PART # 024 STEEL BAR PART # 027 HINGE CONNECTOR PART # 028

NOTE: DRAWING FOR CISA (4) POINT LOCK AS PER MANUFACTURER'S DRAWING # 0-97-10-1853 (LATCH BOLT) 0-97-10-1852 (DEAD BOLTS), 0-97-10-1850 (LOCK CASE) AND 0-97-10-1851 (LOCK CAP).

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TILLIT TESTING & ENGINEERING COMPANY
6356 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone : (305)871-1530 . Fax : (305)871-1531
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EB-0006719
WALTER A. TILLIT Jr. P. E.
FLORIDA Lic. # 44167

INSWING DOUBLE STEEL DOOR

MASTER SECURITY DOORS, INC.
702 SOUTH MILITARY TRAIL
DEERFIELD BEACH, FL 33442
PH (561)499-7558 FAX (561)499-7558

REV.No	DESCRIPTION	DATE	Drawn by: MIR/F.P./A.G.
1	OLD 07-152	02/29/12	DATE: 02/29/12

PRODUCT DESCRIPTION
BILL OF MATERIALS

DRAWING No
12-058

MODEL: EX - 4
DESCRIPTION: ID DOOR

SHEET
23 OF 23