



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
www.miamidade.gov/buildingcode

NOTICE OF ACCEPTANCE (NOA)

Vision Hollow Metal Limited
400 Zenway Blvd., Unit 1
Woodbridge, Ontario L4H 0S7
Canada

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 the High Velocity Hurricane Zone.

DESCRIPTION: Single Outswing Steel Doors - LMI

APPROVAL DOCUMENT: Drawing No "AD10-10", titled "Single Outswing Steel Door", sheets 1 through 5 of 5, prepared by MCY Engineering, Inc., dated 03-20-10 and last revised on 06/18/10, signed and sealed by Yiping Wang, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

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 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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
6/24/10

NOA No 10-0420.04
Expiration Date: July 14, 2015
Approval Date: July 14, 2010

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No "AD10-10", titled "Single Outswing Steel Door", sheets 1 through 5 of 5, prepared by MCY Engineering, Inc., dated 03/20/10 and last revised on 06/18/10, signed and sealed by Yiping Wang, P.E.

B. TESTS

1. Test report on

- 1) Air Infiltration Test, per FBC, TAS 202-94
- 2) Uniform Static Air Pressure Test, Loading per TAS 202-94
- 3) Water Resistance Test per FBC TAS 202-94
- 4) Forced Entry Test, per PA 202-94
- 5) Large Missile Impact Test per FBC, TAS 201-94
- 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with manufacturer's parts and section drawings of flush outswing steel doors, marked by Hurricane Test Lab, Test Report No. **HTL 0549-0706-09**, dated 03/12/10, signed and sealed by Vinu J. Abraham, P. E.

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by MCY Engineering, Inc., dated 03/26/10, signed and sealed by Yiping Wang, P. E.

D. QUALITY ASSURANCE BY;

1. Miami-Dade County Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

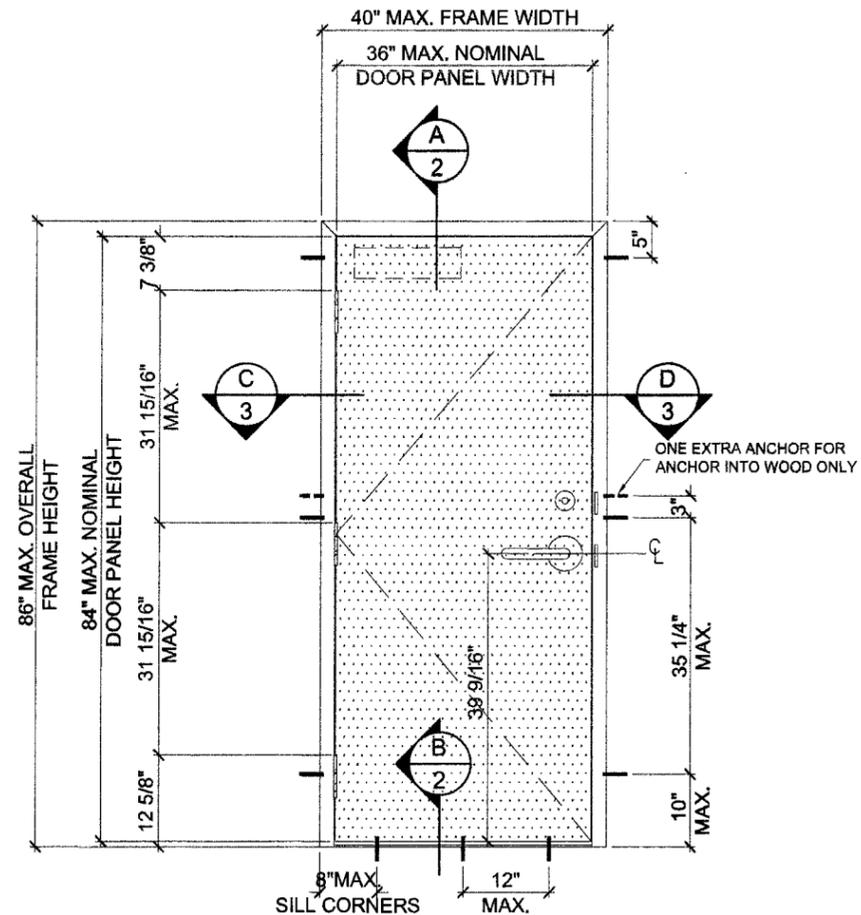
1. Tensile test report # 10CM-392, dated 04/06/10 prepared by QC Metallurgical, Inc., sheet and frame samples, signed & sealed by Frank Grate, P.E.
2. Tensile test report # 10CM-204, dated 03/02/10 prepared by QC Metallurgical, Inc., sheet samples, signed & sealed by Frank Grate, P.E.

E. STATEMENTS

1. Letter of conformance to FBC 2007 & "No financial interest" dated 03/26/10, signed and sealed by Yiping Wang, P.E.
2. Laboratory compliance letter for Test Report no. HTL-0549-0706-09, issued by Hurricane Test Laboratory, Inc., dated 03/12/10, signed and sealed by Vinu J. Abraham, P.E.
3. Distributor Agreement between Vision Hollow Metal Ltd., Ontario Canada and Cafferty Building Products, Florida USA, dated 04/06/10, signed by Nick Siragusa and Bob Cafferty, respectively.

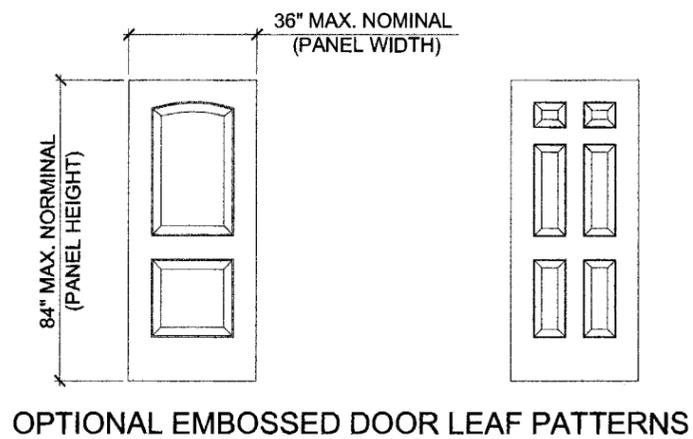


Jaime D. Gascon, P.E.
Chief, Product Control
NOA No 10-0420.04
Expiration Date: July 14, 2015
Approval Date: July 14, 2010



(X)
TYPICAL ELEVATION

MAX. DESIGN LOAD
(FOR SIZES SHOWN ABOVE OR SMALLER)
+75.0 PSF
-75.0 PSF



SINGLE OUTSWING STEEL DOOR (LMI)

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
 - DOORS RATED FOR LARGE MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.
 - DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS OR IS NOT REQUIRED.
 - ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
 - ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
 - MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS.
 - METAL STRUCTURES NOT BY VISION HOLLOW METAL LIMITED MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.
 - WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
 - A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
 - DOOR PANEL: MIN. 20 GA. STEEL Fy = 47.5 KSI MIN.
DOOR FRAME: MIN. 18 GA. STEEL Fy = 45.1 KSI MIN
 - DOOR PANEL OPTION: STAINLESS STEEL A316 OR A304
MIN. 20 GA. Fy=47.5 KSI
DOOR FRAME OPTION: STAINLESS STEEL A316 OR A304
MIN. 18 GA. Fy=45.1 KSI
- NOTES:**
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

NO	DATE	DESCRIPTION
1	06-16-10	AS PER DCDD COMMENTS

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

MCY

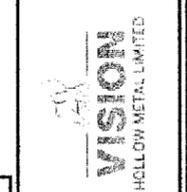
9110 SW SUNSET DRIVE.
MIAMI, FL 33173

P. 305.271.0117
F. 786.573.5063

www.MCYEngineering.com
MCY.Engineering@Att.net

SINGLE OUTSWING STEEL DOOR
VISION HOLLOW METAL LIMITED

400 ZENWAY BLVD., UNIT #1
WOODBRIIDGE, ON L4H07



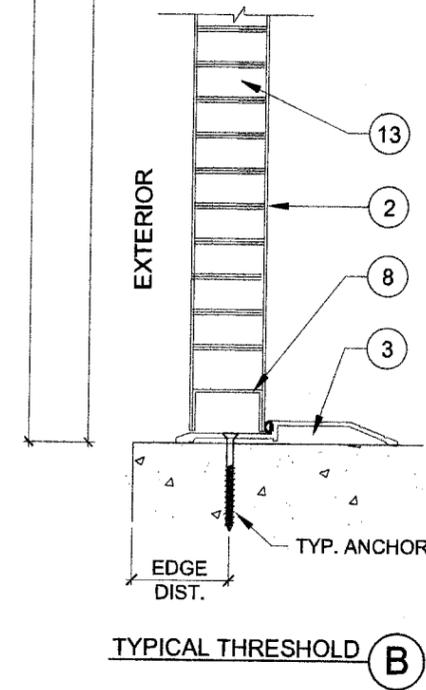
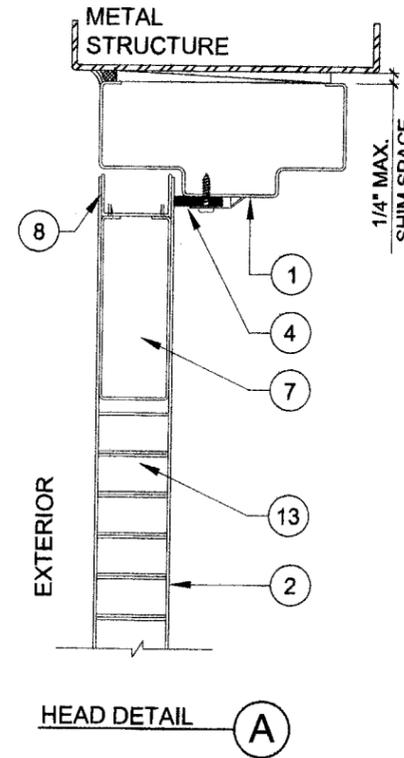
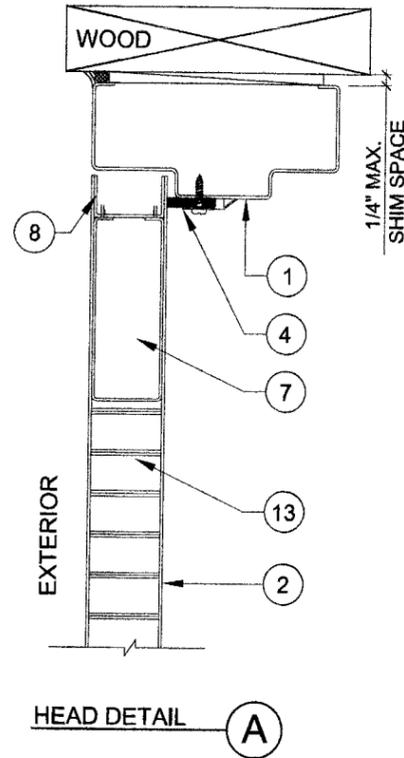
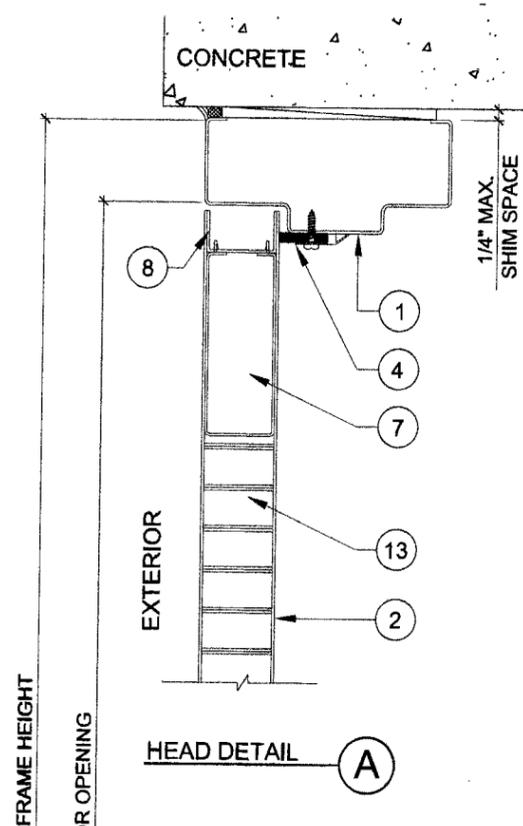
Approved as complying with the Florida Building Code
Date 07/14/10
NOA# 10-0420.04
Miami Code Product Control
Division
By [Signature]

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

[Signature]

JUN 18 2010

DATE	03-20-2010
SCALE	1/2" = 1'-0"
DRAWN	E.D.
PROJECT	10-03
DRAWING NO.	AD10-10
	1 OF 5



TYPICAL ANCHORS @ JAMB:
(SEE ELEV. FOR SPACING)

- TYPE A.** 5/16" DIA. ULTRACONS BY 'ELCO' Fy=155 KSI Fu = 177 KSI
DIRECTLY INTO 2BY WOOD BUCK
DIRECTLY INTO fc=3000 PSI CONCRETE
1-1/2" MIN. EMBED
2-1/2" MIN. EDGE DISTANCE
- TYPE B.** 3/8" DIA. HLC SLEEVE ANCHOR BY 'HILTI'
DIRECTLY INTO fc=3000 PSI CONCRETE, 3" MIN. EDGE DIST.
DIRECTLY INTO fc=2000 PSI CONCRETE BLOCK, 3-1/2" MIN. EDGE DIST.
1-1/4" MIN. EMBED
- TYPE C.** 3/8" DIA. SLEEVE ANCHOR BY 'WEJ-IT'
DIRECTLY INTO fc=4000 PSI CONCRETE, 2-3/8" MIN. EMBED
DIRECTLY INTO fc=2000 PSI CONCRETE BLOCK, 1-1/4" MIN. EMBED
3-1/2" MIN. EDGE DISTANCE
- TYPE D.** 3/8" DIA. POWER BOLT BY 'POWERS'
DIRECTLY INTO fc=3000 PSI CONCRETE
2-1/2" MIN. EMBED
3" MIN. EDGE DISTANCE
- TYPE E.** 5/16" DIA. SMS OR MACHINE BOLTS (MIN. GRADE 2 CRS) OR STAINLESS STEEL
INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICK.)
STEEL : Fy = 36 KSI MIN.
ALUMINUM : 6063-T6 MIN.
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL ANCHORS @ THRESHOLD:
(SEE ELEV. FOR SPACING)

- TYPE F.** 1/4" OR 5/16" DIA. ULTRACONS BY 'ELCO' Fy = 155 KSI Fu = 177 KSI
DIRECTLY INTO fc=3000 PSI MIN. CONCRETE
1-1/2" MIN. EMBED
2-1/2" MIN. EDGE DISTANCE
- 1/4" TAPCON BY ITW Fy = 90 KSI Fu = 120 KSI
DIRECTLY INTO fc=3000 PSI MIN. CONCRETE
1-1/2" MIN. EMBED
2-1/2" MIN. EDGE DISTANCE

SEALANT:
ALL FRAME JOINTS AND CORNERS TO BE SEALED
WITH SILICONE AT PERIMETER

METAL STRUCTURES NOT BY VISION HOLLOW METAL LIMITED
MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

Approved as complying with the
Florida Building Code
Date 07/14/10
NOA# 10-0420-04
Miami Dade Product Control
Division
By *[Signature]*

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

[Signature]

JUN 18 2010

NO.	DATE	DESCRIPTION
1	06-18-10	AS PER RECD COMMENTS



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

9110 SW SUNSET DRIVE.
MIAMI, FL 33173
P: 305.271.0117
F: 786.573.5063
www.MCYEngineering.com

MCY.Engineering@Att.net

SINGLE OUTSWING STEEL DOOR
VISION HOLLOW METAL LIMITED

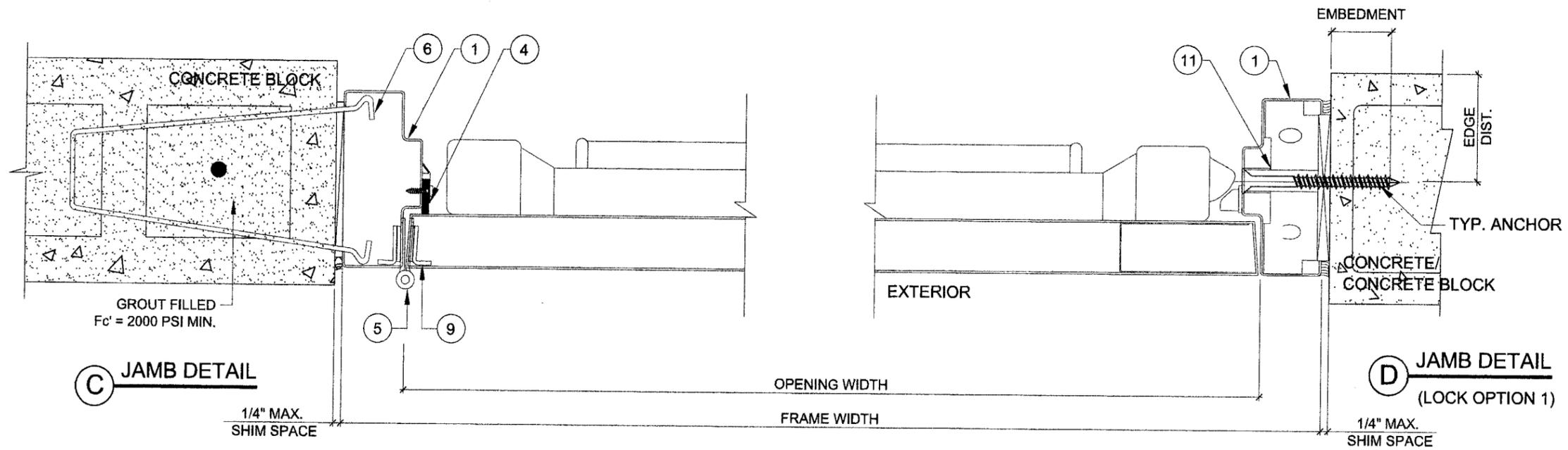
400 ZENWAY BLVD., UNIT #1
WOODBRIIDGE, ON L4H07



DATE	03-20-2010
SCALE	1:4
DRAWN	E.D
PROJECT	10-03

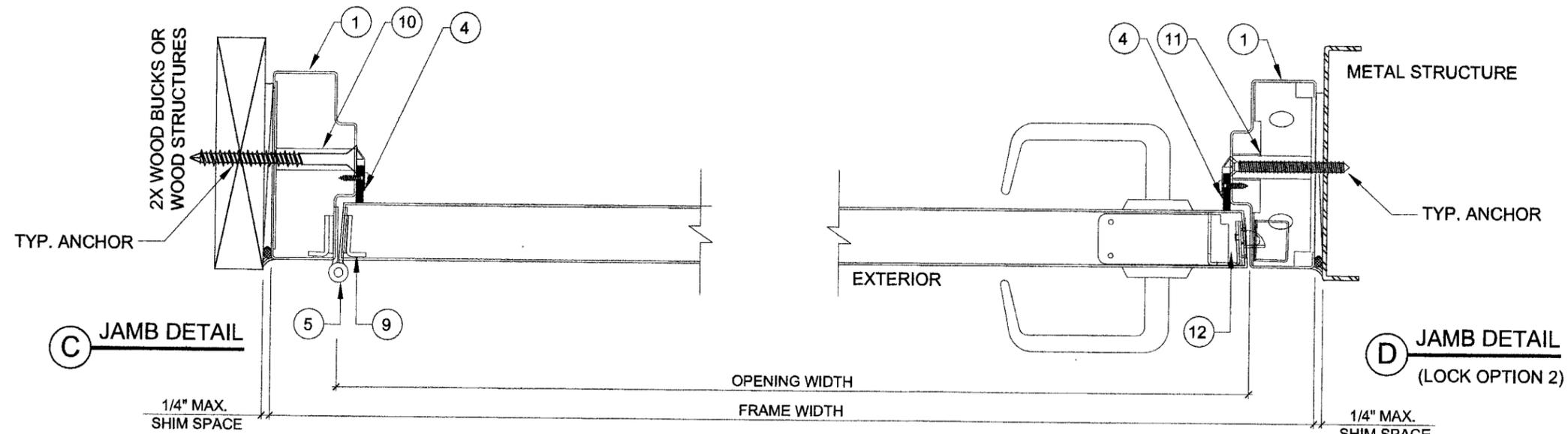
DRAWING NO.
AD10-10

2 OF 5



C JAMB DETAIL

D JAMB DETAIL (LOCK OPTION 1)



C JAMB DETAIL

D JAMB DETAIL (LOCK OPTION 2)

Approved as complying with the Florida Building Code
 Date 07/14/10
 NOA# 10-0420.04
 Miami Dade Product Control Division
 By [Signature]
 MIAMI DADE COUNTY

YIPING WANG, P.E.
 FLORIDA REGISTRATION
 PE #55983
 C.A.N. 28677
[Signature]
JUN 18 2010

NO.	DATE	DESCRIPTION
1	06-18-10	AS PER EXCD COMMENTS

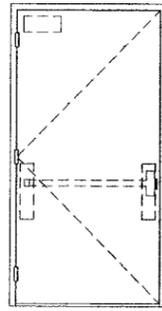
MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 9110 SW SUNSET DRIVE,
 MIAMI, FL 33173
 P: 305.271.0117
 F: 786.573.5063
 www.MCYEngineering.com
 MCY.Engineering@Att.net

SINGLE OUTSWING STEEL DOOR
VISION HOLLOW METAL LIMITED
 400 ZENWAY BLVD., UNIT #1
 WOODBRIDGE, ON L4H07

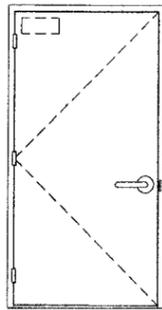


DATE	05-20-2010
SCALE	1:4
DRAWN	ED
PROJECT	10-03
DRAWING NO.	AD10-10
3 OF 5	

LOCK OPTIONS



"2000 SERIES RIM PANIC" DESIGN HARDWARE LOCATED AT 39 3/16" UP FROM THE BOTTOM EDGE OF THE OPERABLE PANEL.



"SCHLAGE AL53PD" CYLINDRICAL LOCK LOCATED AT 39 3/16" UP FROM THE BOTTOM EDGE OF THE OPERABLE PANEL, WITH "SCHLAGE B660P" DEAD BOLT. CENTERLINE OF DEAD BOLT TO BE AT 7 3/4" UP FROM CENTERLINE OF DOOR KNOB. "SCHLAGE 10-025" STRIKE PLATE LOCATED ON FRAME IN LINE WITH LOCK.

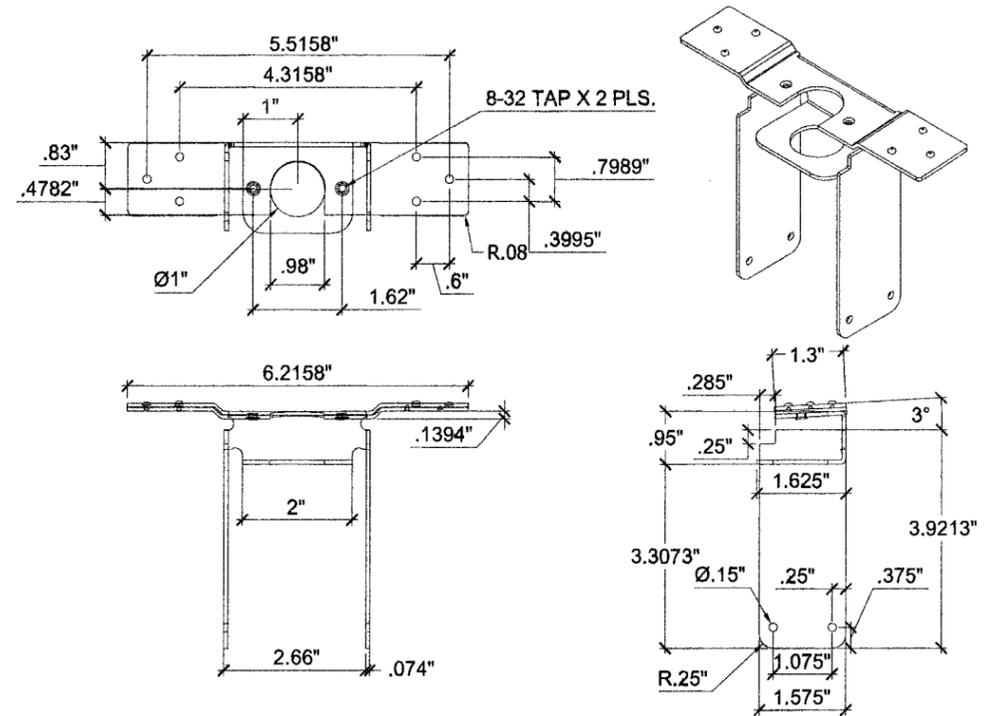
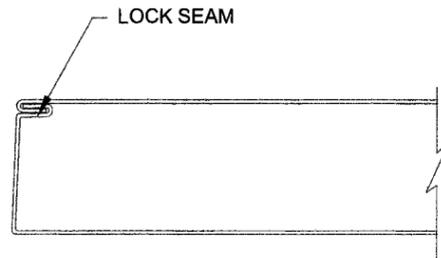
HINGES

(3) "HAGAR 1279 HINGES" OR "HAGAR 1279 NRP HINGES" TOP: 7 3/8" DOWN FROM THE TOP OF THE OPERABLE PANEL TO THE TOP OF HINGE.

MIDDLE: 31 15/16" FROM THE TOP OF THE TOP HINGE TO TOP OF MIDDLE HINGE.

BOTTOM: 31 15/16" FROM THE TOP OF THE BOTTOM HINGE TO TOP OF MIDDLE HINGE.

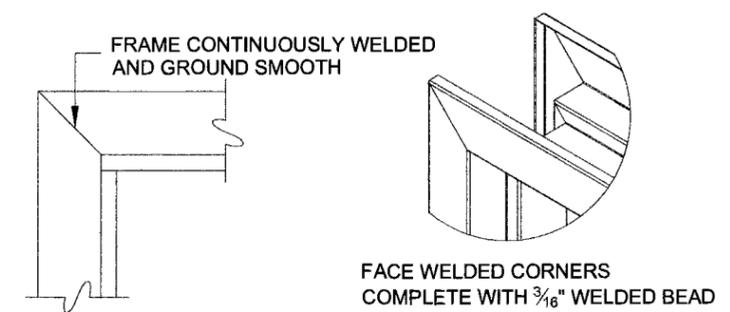
DOOR EDGE CONSTRUCTION



12 CYLINDRICAL LOCK REINFORCING

BILL OF MATERIALS

ITEM NO.	PART NO.	MATERIAL	QUANTITY	DESCRIPTION	MANF./SUPPLIER/REMARKS
1	-	STEEL	AS REQD.	FRAME HEAD/JAMB (2" x 5 3/4")	18 GA.(0.053"MIN.) GALVANNEAL STEEL (Fy = 45.1 KSI)
2	-	STEEL	AS REQD.	DOOR FACE SHEETS (36" x 84" x 0.032")	20 GA.(0.032 MIN.) GALVANNEAL STEEL (Fy = 47.5 KSI)
3	477S	ALUMINUM	1	BUMPER TRESHOLD (5" x 1/2" x 0.094")	HAGER 6063-T5
4	875S	-	AS REQD.	WEATHERSTRIPPING	HAGER
5	1279	STEEL	3 PER LEAF	HAGER 1279 HINGES	HAGER
6	-	STEEL	AS REQD.	MASONRY WIRE ANCHOR	0.173 DIA. Fy = 60 KSI
7	-	STEEL	AS REQD.	CLOSER BOX (1 1/16" x 4 3/16" x 0.053")	16 GA. GALVANNEAL STEEL
8	-	STEEL	AS REQD.	END CHANNEL (1 5/8" x 1 3/16" x 0.053")	16 GA. GALVANNEAL STEEL
9	-	STEEL	AS REQD.	HINGE REINFORCEMENT	10 GA. GALVANNEAL STEEL
10	-	STEEL	AS REQD.	EMA ANCHOR	VISION HOLLOW METAL
11	-	STEEL	AS REQD.	EMA ANCHOR OPTION	VISION HOLLOW METAL
12	-	STEEL	AS REQD.	CYLINDRAL LOCK REINFORCING	-
13	-	-	AS REQD.	HONEY COMB 1" CELL OR CORE	-



FRAME CORNERS

Approved as complying with the Florida Building Code
 Date 07/14/10
 NOA# 10-0420.04
 Miami Dade Product Control
 Division
 By *[Signature]*

YIPING WANG, P.E.
 FLORIDA REGISTRATION
 PE #55983
 C.A.N. 28677

[Signature]

JUN 18 2010

MIAMI DADE COUNTY

REVISIONS

NO.	DATE	DESCRIPTION
1	10-18-10	AS PER RCD COMMENTS

MCY

MCY ENGINEERING, INC.
 GLAZING CONSULTANTS

9110 SW SUNSET DRIVE,
 MIAMI, FL 33173

P: 305.271.0117
 F: 786.573.5063

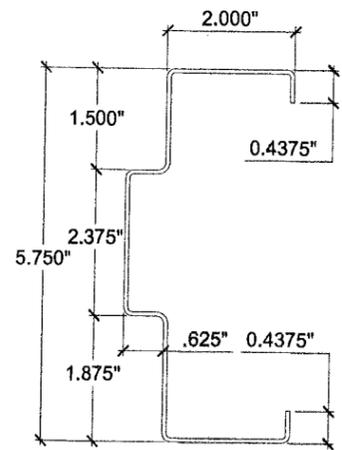
www.MCYEngineering.com
 MCY.Engineering@Att.net

SINGLE OUTSWING STEEL DOOR
 VISION HOLLOW METAL LIMITED

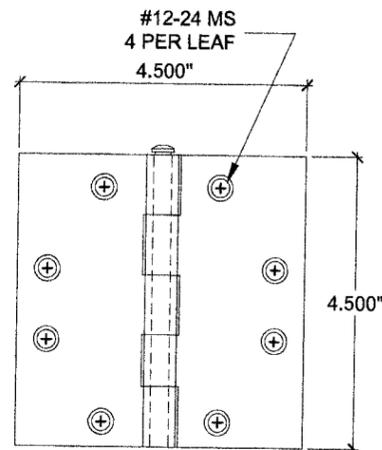
400 ZENWAY BLVD., UNIT #1
 WOODBRIDGE, ON L4H0S7

VISION
 HOLLOW METAL LIMITED

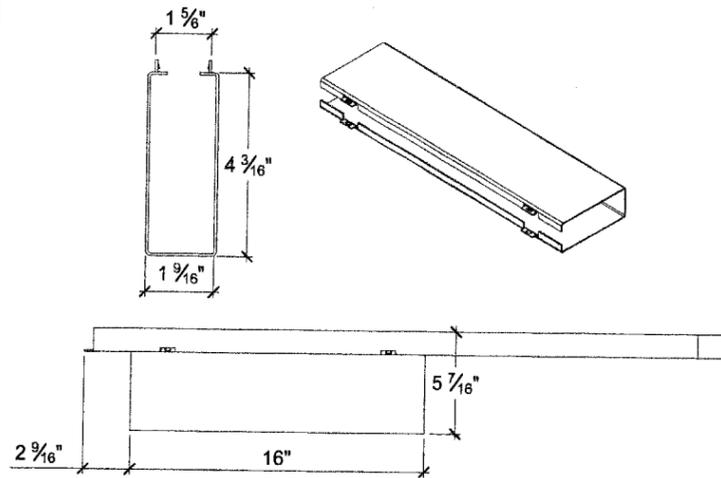
DATE	03-20-2010
SCALE	N.T.S.
DRAWN	ED
PROJECT	10-03
DRAWING NO.	AD10-10
4 OF 5	



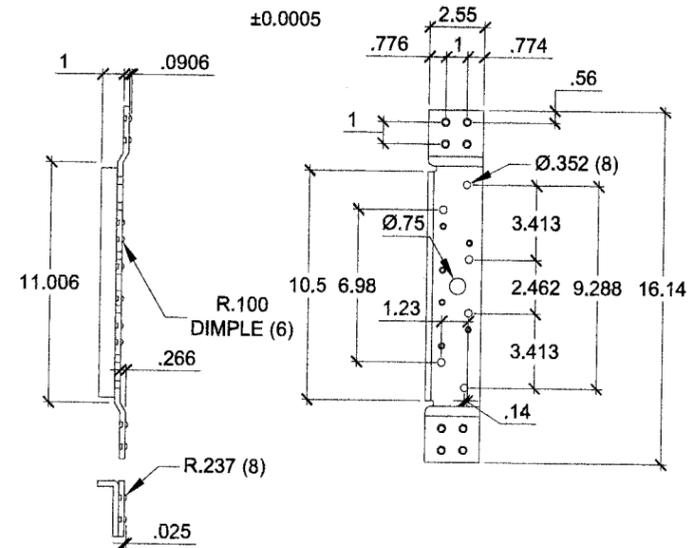
1 **FRAME HEAD/JAMB**



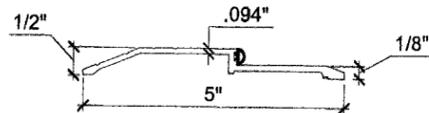
5 **STEEL HINGE**



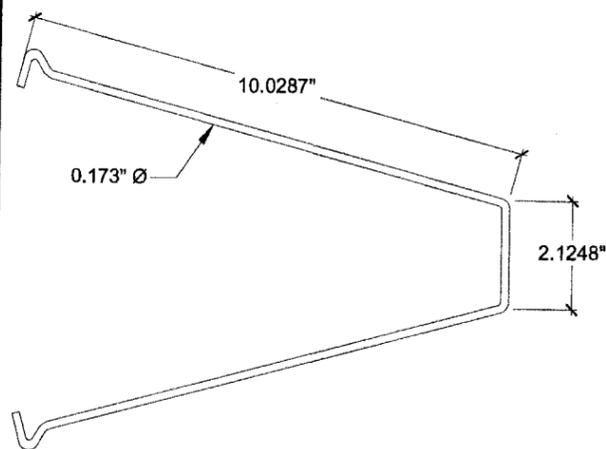
7 **CLOSER BOX**



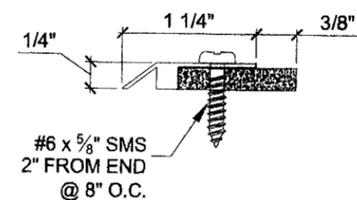
9 **HINGE REINFORCEMENT**



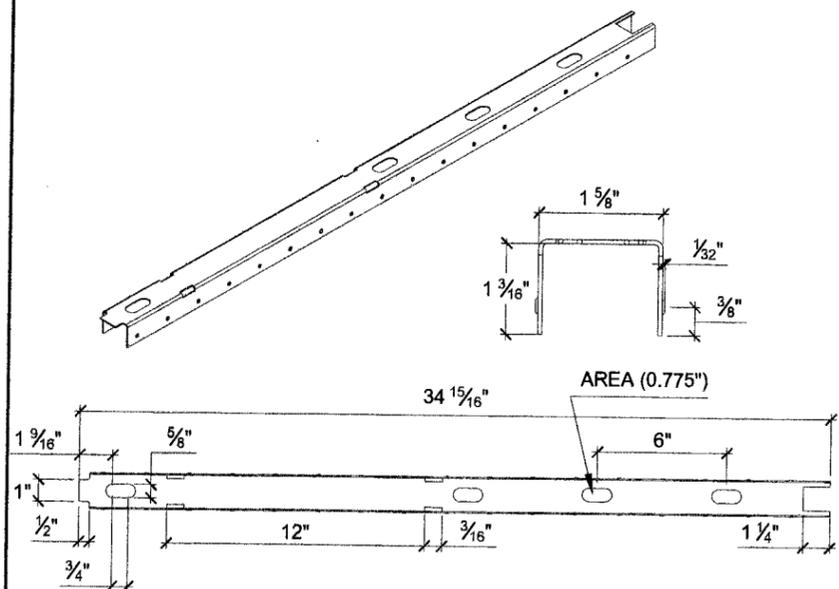
3 **TRESHOLD**



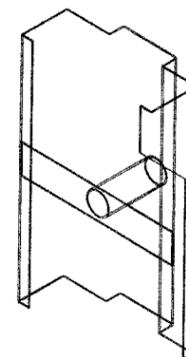
6 **MASONRY WIRE ANCHOR**
Fy = 60 KSI



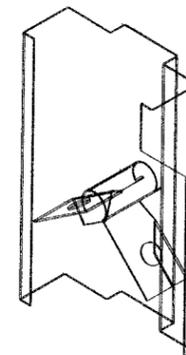
4 **WEATHER STRIPPING**



8 **END CHANNEL**



10 **EMA ANCHOR**



11 **EMA ANCHOR**

Approved as complying with the Florida Building Code
Date 07/14/10
NOA# 10-0420.04
Miami Dade Product Control Division
By [Signature]

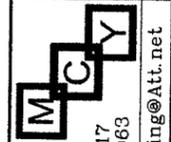
MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

[Signature]

JUN 18 2010

NO	DATE	DESCRIPTION
1	06-18-10	AS PER BCD COMMENTS



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

9110 SW SUNSET DRIVE,
MIAMI, FL 33173
P: 305.271.0117
F: 786.573.5063
www.MCYEngineering.com MCY.Engineering@Atl.net

SINGLE OUTSWING STEEL DOOR
VISION HOLLOW METAL LIMITED
400 ZENWAY BLVD., UNIT #1
WOODBIDGE, ON L4H0S7



DATE	03-20-2010
SCALE	N.T.S
DRAWN	E.D
PROJECT	10-03

DRAWING NO.
AD10-10