



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.buildingcodeonline.com](http://www.buildingcodeonline.com)

**Thermo-Kool/Mid-South Industries, Inc.**  
723 East 21<sup>st</sup> Street (P. O. Box 989)  
Laurel, Mississippi 39441

**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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Walk-In Cooler / Freezer**

**APPROVAL DOCUMENT:** Drawing No. 09-MSI-01, titled "Walk-In Cooler / Freezer ", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, signed and sealed by J. W. Knezevich, P.E., dated January 06, 2009, last revision #1 dated May 04, 2010, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration 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 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 NOA #09-0127.08** 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.**



*Helmy A. Makar*  
09/01/2010

**NOA No. 10-0520.07**  
**Expiration Date: 03/04/2014**  
**Approval Date: 09/01/2010**  
Page 1

**Thermo-Kool/Mid-South Industries, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-1023.01**

**A. DRAWINGS**

1. *Drawing No. 02-564, titled "Walk-In Cooler / Freezer", sheets 1 through 5 of 5, prepared by Knezevich and Associates, Inc., signed and sealed by V. J. Knezevich, P.E., dated October 01, 2003, last revision #1 dated January 21, 2004.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Load Test and Uniform Static air Pressure Test, Axial Load Test, and Racking load Test on Metal Sheathed Urethane Foam Filled Modular Panel Walk-in Coolers / Freezers, prepared by Construction Testing Corporation, Report No.03-011, dated July 21, 2003, signed and sealed by Yamil G. Kuri, P.E.*

**C. CALCULATIONS**

1. *Calculation titled "Walk-in Cooler / Freezer", dated October 01, 2003, pages 1 through 21 of 21, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*
2. *Revised calculation titled "Walk-in Cooler / Freezer", dated January 19, 2004, pages 1 through 21 of 21, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *Mill Certified Test Report issued by GalvTech, dated 03/10/97, with the Chemical analysis and Mechanical Properties for 22 gauge (0.0296") G-90 Steel conforming to ASTM A-653.*
2. *Mill Certified Test Report issued by Alumax Mill Products, dated 09/18/97, with the Chemical composition and Mechanical Properties for 0.032" thick White Embossed 3105-H154 Aluminum Alloy.*
3. *Mill Certified Test Report issued by Alumax Mill Products, dated 09/04/97, with the Chemical composition and Mechanical Properties for 0.040" thick Smooth White 3105-H14 Aluminum Alloy.*
4. *Tensile Test Report No. CTL #756C, prepared by Certified Testing Laboratories, dated 10/28/97, signed and sealed by Ramesh Patel, P.E.*
5. *Tensile Test Report No. CTL #614C, prepared by Certified Testing Laboratories, dated 09/04/97, signed and sealed by Ramesh Patel, P.E.*



**Helmy A. Makar, P.E., M.S.**  
**Senior Product Control Examiner**  
**NOA No. 10-0520.07**  
**Expiration Date: 03/04/2014**  
**Approval Date: 09/01/2010**

**Thermo-Kool/Mid-South Industries, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #05-1003.05**

**A. DRAWINGS**

1. *Drawing No. 05-435, titled "Walk-In Cooler / Freezer", sheets 1 through 5 of 5, prepared by Thornton-Tomasetti Group, signed and sealed by J. W. Knezevich, P.E., dated September 26, 2005, last revision #0 dated September 26, 2005.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *Calculation titled "Walk-in Cooler / Freezer", dated September 29, 2005, pages 1 through 16 of 16, prepared by Thornton-Tomasetti Group, signed and sealed by J. W. Knezevich, P.E.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #09-0127.08**

**A. DRAWINGS**

1. *Drawing No. 09-MSI-01, titled "Walk-In Cooler / Freezer", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, signed and sealed by J. W. Knezevich, P.E., dated January 06, 2009.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

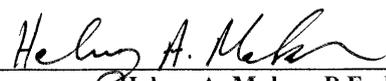
1. *None.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*



Helmy A. Makar, P.E., M.S.  
Senior Product Control Examiner  
NOA No. 10-0520.07  
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**Thermo-Kool/Mid-South Industries, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. 09-MSI-01, titled "Walk-In Cooler / Freezer ", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, signed and sealed by J. W. Knezevich, P.E., dated January 06, 2009, last revision #1 dated May 04, 2010.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

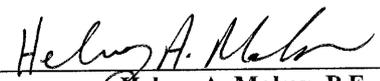
1. *None.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*



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Helmy A. Makar, P.E., M.S.  
Senior Product Control Examiner

NOA No. 10-0520.07

Expiration Date: 03/04/2014

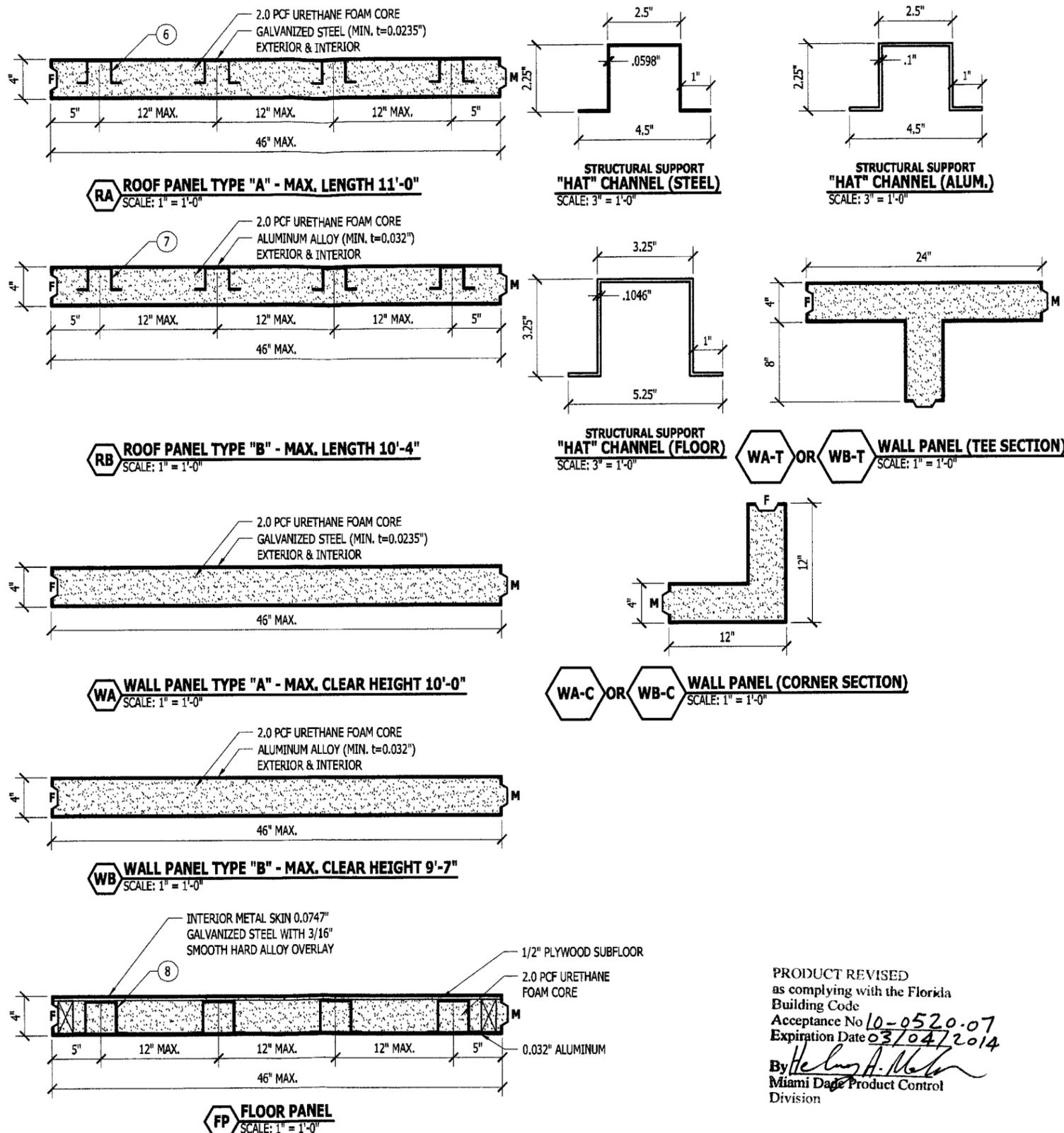
Approval Date: 09/01/2010

**GENERAL NOTES:**

- THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A WALK-IN COOLER/FREEZER SYSTEM ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION. THESE DOCUMENTS COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PROVISIONS OF THE FLORIDA BUILDING CODE (FBC), 2007 EDITION.
- FOR AREAS OUTSIDE OF THE HVHZ, SITE SPECIFIC ENGINEERING IS REQUIRED TO VERIFY THE SITE SPECIFIC DESIGN WIND LOADS AND PANEL TESTING COMPLY WITH THE TESTING REQUIREMENTS OF FBC SECTION 1714.3.1.
- DESIGN LOADS:
  - ROOF:**
    - DEAD LOAD: PANEL TYPE A 4.50 PSF  
PANEL TYPE B 3.00 PSF
    - LIVE LOAD: 20.00 PSF
    - MAXIMUM WEIGHT OF MECHANICAL EQUIPMENT IS 330 POUNDS PER CONDENSING UNIT. SPACE UNITS AT LEAST 4'-0" O.C.
  - WALLS:**
    - DEAD LOAD: PANEL TYPE A 2.60 PSF  
PANEL TYPE B 1.60 PSF
  - FLOOR:**
    - DEAD LOAD: FLOOR PANEL 5.00 PSF  
INSULATED FLOOR 250.00 PSF
    - LIVE LOAD: "FLOORLESS" 250.00 PSF
- WIND LOADS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7-05 BASED ON THE SITE SPECIFIC CONDITIONS. SEE TABLE 3 ON SHEET 2 FOR ALLOWABLE WIND LOADS USED IN THE DESIGN OF THESE DOCUMENTS.
- THESE PRODUCT EVALUATION DOCUMENTS ARE GENERIC. THEY ADDRESS THE STRUCTURAL AND MATERIAL PROPERTIES, BUT DO NOT INCLUDE INFORMATION FOR SITE SPECIFIC APPLICATIONS OF THIS WALK-IN COOLER/FREEZER SYSTEM.
- THESE PRODUCT EVALUATION DOCUMENTS SHALL NOT BE APPLIED BY THE CONTRACTOR, ON A SPECIFIC SITE WITHOUT THE INVOLVEMENT OF AN ARCHITECT OR ENGINEER OF RECORD.
  - THE ARCHITECT/ENGINEER OF RECORD SHALL VERIFY THE SITE SPECIFIC WIND LOAD REQUIREMENTS ARE WITHIN THE CRITERIA USED TO DEVELOP THESE DOCUMENTS.
  - THE ARCHITECT/ENGINEER OF RECORD SHALL VERIFY THE FOUNDATION DESIGN IS ADEQUATE TO RESIST THE FOUNDATION LOADS IDENTIFIED IN TABLE 1.
- THESE PRODUCT EVALUATION DOCUMENTS COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- ANY MODIFICATIONS OR ADDITIONS TO THESE PRODUCT EVALUATION DOCUMENTS WILL VOID THE PRODUCT EVALUATION DOCUMENTS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
  - REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
  - REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION.
- WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B", ABOVE, SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
- ALL BOLTS AND SCREWS SHALL BE 2024-T4 ALUMINUM ALLOY, ELECTRO-GALVANIZED STEEL, HOT DIPPED GALVANIZED STEEL OR 300 SERIES STAINLESS STEEL WITH A MIN. TENSILE STRENGTH OF 60 KSI.
- ALL CONCRETE ANCHORS SHALL BE AS SPECIFIED ON THE DRAWINGS. EMBEDMENT LENGTHS NOTED ON THE DRAWINGS SHALL NOT INCLUDE FINISH MATERIAL.
- DISSIMILAR METALS IN CONTACT WITH EACH OTHER SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC CHAPTER 20, SECTION 2003.8.4.
- AN ALLOWABLE STRESS INCREASE IS NOT USED IN THE DESIGN OF THE COOLER/ FREEZER UNIT NOR ITS ATTACHMENTS.

**RIGID URETHANE FOAM SANDWICH PANEL SPECIFICATIONS**

- WALL & ROOF COMPOSITE SANDWICH PANELS ARE COMPRISED OF ALUMINUM OR STEEL FACINGS WITH Poured URETHANE PLASTIC CORES. THICKNESS AND MATERIAL OF FACINGS SHALL BE AS SHOWN ON THE DRAWINGS.
- ALUMINUM FACINGS SHALL BE 3003-H14 ALLOY WITH MIN.  $F_y = 23.2$  KSI FOR INTERIOR AND EXTERIOR USE.
- STEEL FACINGS USED ON WALL PANELS SHALL COMPLY WITH ASTM A 653 CQ WITH A MIN.  $F_y = 31.0$  KSI, MIN. THICKNESS OF 0.0235" AND G90 COATING.
- MINIMUM DENSITY OF URETHANE PANEL CORE SHALL BE 2.0 P.C.F.
- URETHANE FOAM CORE SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 75 AND SHALL HAVE A SMOKE-DEVELOPED RATING OF NOT MORE THAN 450 IN ACCORDANCE WITH F.B.C. 2603.3.
- METAL SKIN SHALL BE ADHERED TO FOAM WITH HELMITEN ADHESIVE 4012 RD AIR SPRAYED ONTO METAL SKINS AT A RATE OF 0.117 OUNCES PER SQUARE FOOT.
- FOR SPECIFIC REQUIREMENTS OF WALK-IN COOLERS SEE F.B.C. 2603.4.1.2 AND 2603.4.1.3.



PRODUCT REVISED  
as complying with the Florida  
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By *Helmut A. Weber*  
Miami Dade Product Control  
Division

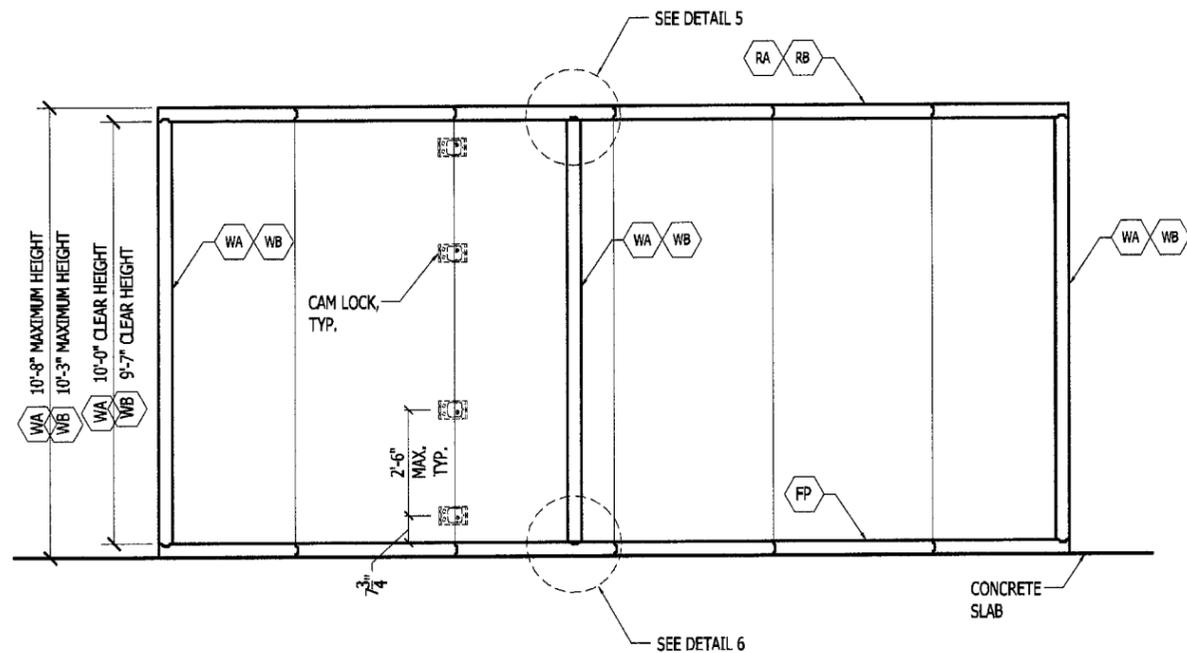
**KNEZEVICH CONSULTING**  
KNEZEVICH CONSULTING, LLC  
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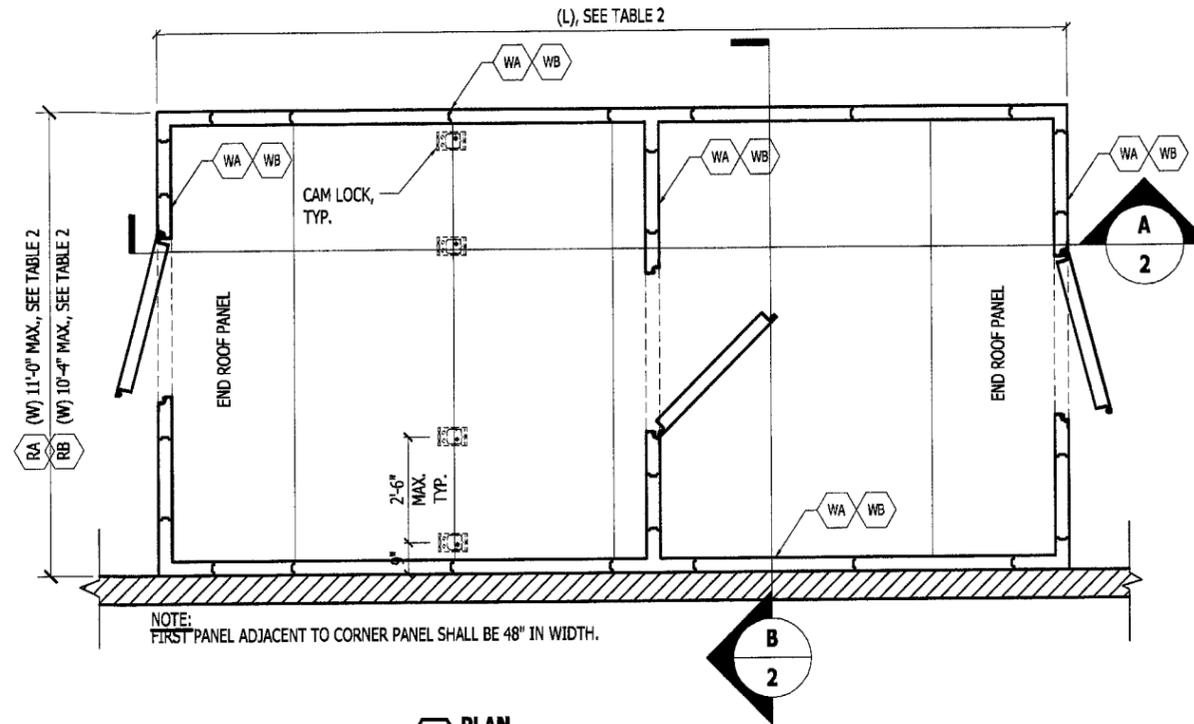
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1	05/04/2010	JWK	CHANGE HINGE INFORMATION AND GENERAL NOTES

**J.W. Knezevich**  
Professional Engineer  
FL License No.: PE 41961

drawn by ARV scale AS NOTED  
date 01/06/2009  
drawing no. 09-MSI-01  
sheet 1 of 5



**A SECTION (TYP.)**  
SCALE: 1/4" = 1'-0"



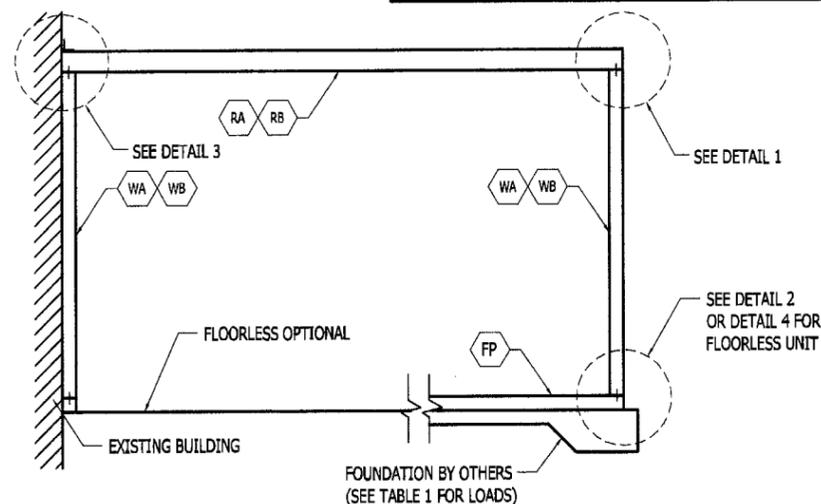
**C PLAN**  
SCALE: 1/4" = 1'-0"

TABLE 1	LOADS FOR FOUNDATION DESIGN	NET WIND UPLIFT ( $P_v$ ) AND SHEAR ( $P_H$ ) FORCES	
		ROOF PANEL MAXIMUM SPAN	
		RA = 11'-0"	RB = 10'-4"
	$P_v$	- 350 # / FT	- 342 # / FT
	$P_H$	± 245 # / FT	± 235 # / FT

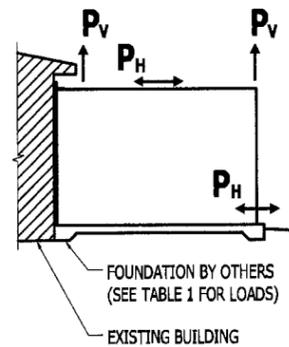
TABLE 2	UNIT WIDTH (W) FT - IN	UNIT LENGTH (L) MINIMUM NUMBER OF 46" PANELS ON EXTERIOR WALL FOR A GIVEN UNIT WIDTH (W)	
		WA	WB
	LESS OR EQUAL TO 6'-8"	-	2
	GREATER THAN 6'-8" UP TO 10'-4"	-	3
	LESS OR EQUAL TO 8'-5"	3	-
	GREATER THAN 8'-5" UP TO 11'-0"	4	-

TABLE 3	ZONES	ALLOWABLE WIND LOADS (PSF)									
		ROOF						WALL			
		1	2	3	1	2	3	4	5	4	5
	NEGATIVE	-43.9	-60.2	-74.3	-44.0	-61.0	-76.1	-42.8	-50.2	-42.8	-50.2
	POSITIVE	+16.4			+16.5			+39.3		+39.3	

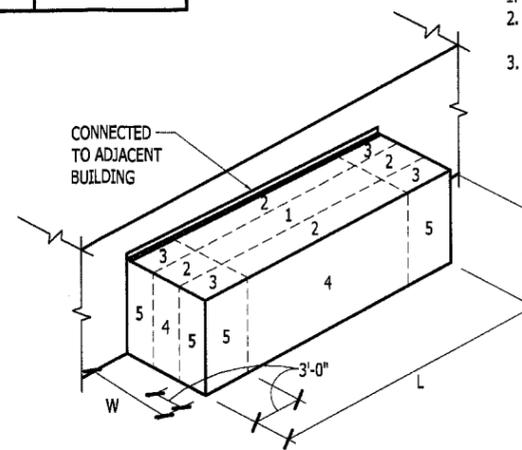
- ALLOWABLE WIND LOADS NOTES:**
- LOADS SHOWN REPRESENT WIND LOADS USED IN THE DESIGN OF THE UNIT.
  - SITE SPECIFIC WIND LOADS SHALL BE LESS THAN OR EQUAL TO THESE LOADS. SEE SHEET 1, GENERAL NOTE 5A.
  - DESIGN WIND LOADS ARE BASED ON A FACTOR OF SAFETY OF 2.5 FOR WALL AND ROOF PANELS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, SECTION 1714.3.



**B SECTION (TYP.)**  
SCALE: 1/4" = 1'-0"



**D ELEVATION**  
N.T.S.



(SEE TABLE 2 FOR WIDTH/LENGTH LIMITATION)

**E ISOMETRIC WITH WIND ZONES**  
N.T.S.

PRODUCT REVISED  
as complying with the Florida  
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Expiration Date 03/04/2014  
By *Helmut A. Weber*  
Miami Dade Product Control  
Division

**J.W. Knezevich**  
Professional Engineer  
FL License No.: PE 41961

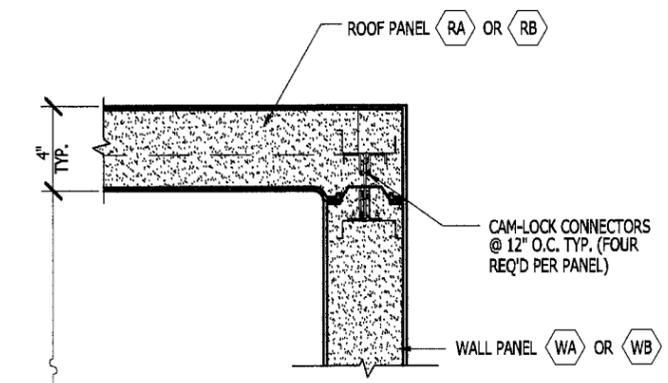
drawn by ARV scale AS NOTED  
date 01/06/2009  
drawing no.

**09-MSI-01**  
sheet 2 of 5

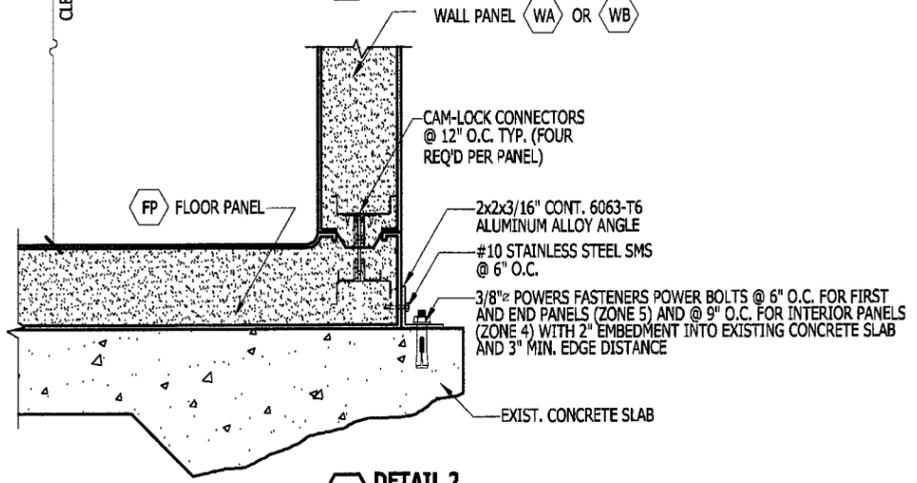
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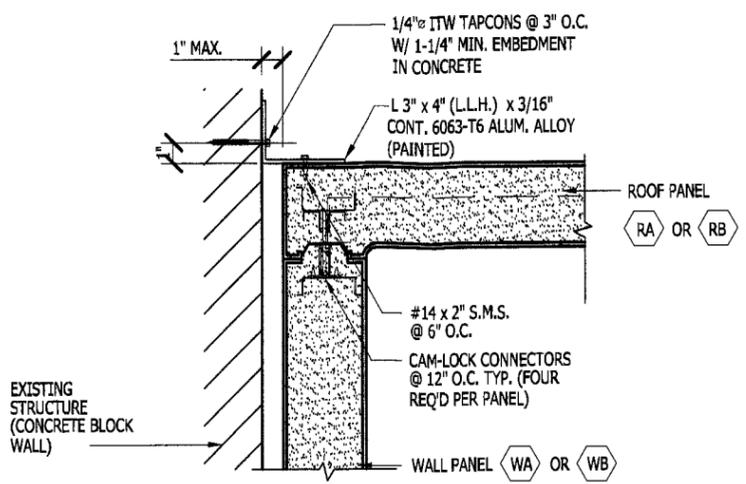
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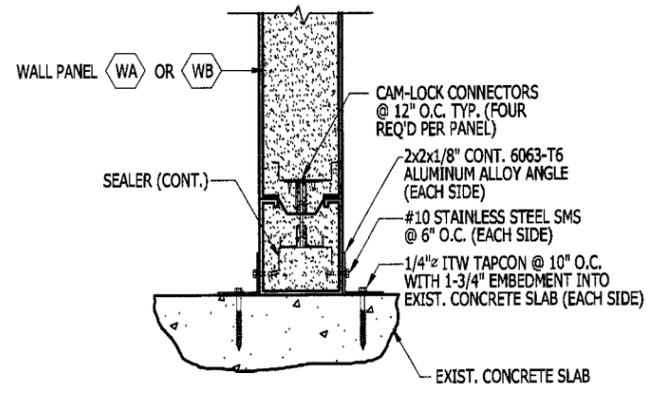
**1 DETAIL 1**  
SCALE: 1-1/2" = 1'-0"



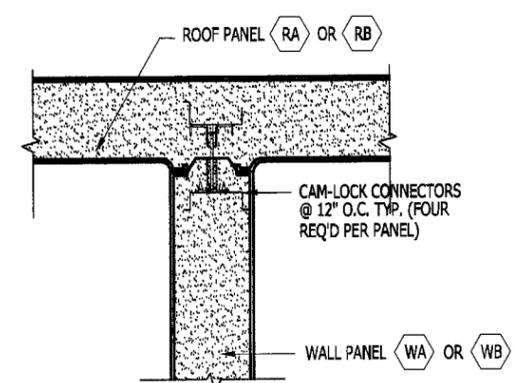
**2 DETAIL 2**  
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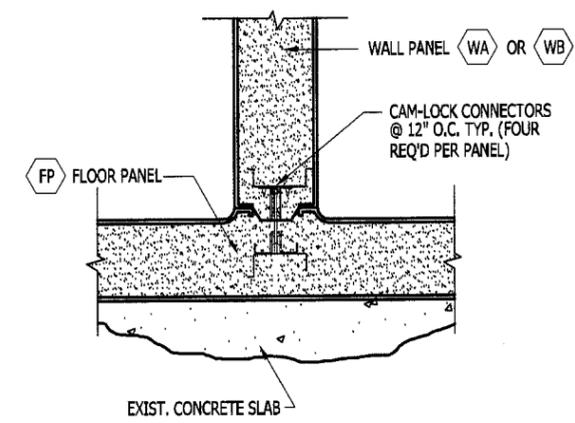
**3 DETAIL 3**  
SCALE: 1-1/2" = 1'-0"



**4 DETAIL 4**  
SCALE: 1-1/2" = 1'-0"



**5 DETAIL 5**  
SCALE: 1-1/2" = 1'-0"



**6 DETAIL 6**  
SCALE: 1-1/2" = 1'-0"

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no	date	by	description
1	06/04/2009	JWK	CHANGE HINGE INFORMATION AND GENERAL NOTES

**J.W. Knezevich**  
Professional Engineer  
FL License No.: PE 41961

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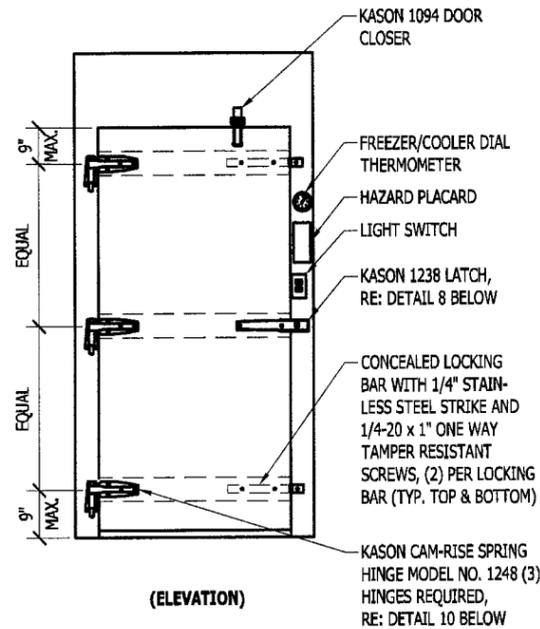
By *Helmut A. Mohr*  
Miami Dade Product Control  
Division

*[Signature]*  
5/17/10  
origin by ARV scale AS NOTED

date 01/06/2009

drawing no. 09-MSI-01

sheet 3 of 5

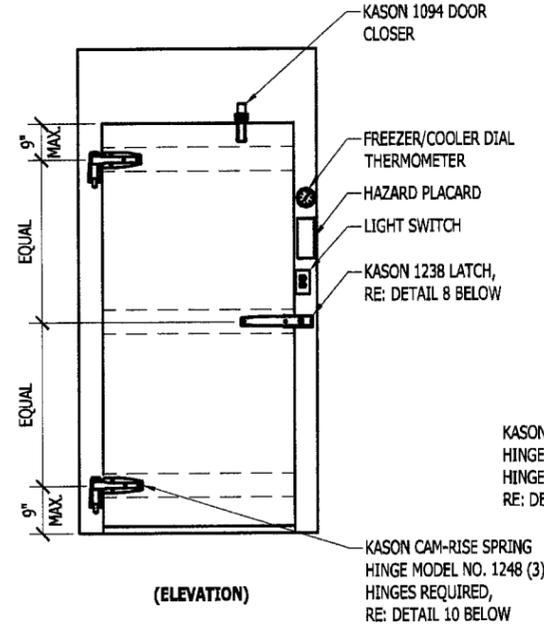


(ELEVATION)

**ENTRANCE DOOR EXPOSED TO EXTERIOR**

SCALE: 3/8" = 1'-0"

46"x91 3/4" MAX DS WITH 37"x77 11/16" DOOR  
OPENING TYPE WA OR WB OR MIX & MATCH

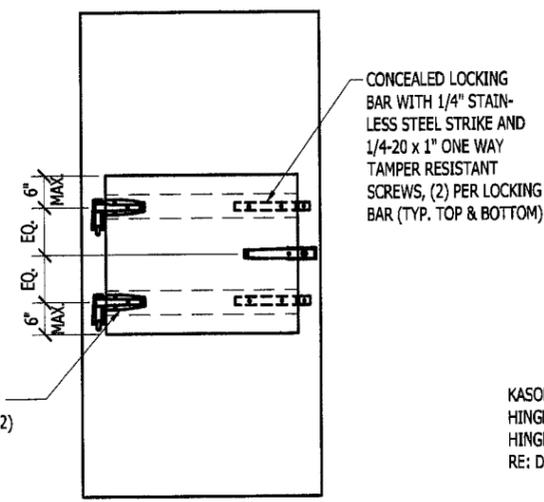


(ELEVATION)

**PARTITION DOOR OR UNEXPOSED TO EXTERIOR**

SCALE: 3/8" = 1'-0"

46"x91 3/4" MAX DS WITH 37"x77 11/16" DOOR  
OPENING TYPE WA OR WB OR MIX & MATCH

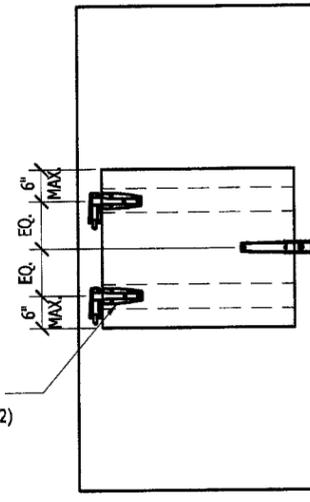


(ELEVATION)

**REACH-IN DOOR EXPOSED TO EXTERIOR**

SCALE: 3/8" = 1'-0"

46"x91 3/4" MAX DS WITH 30"x30" DOOR  
OPENING TYPE WA OR WB OR MIX & MATCH

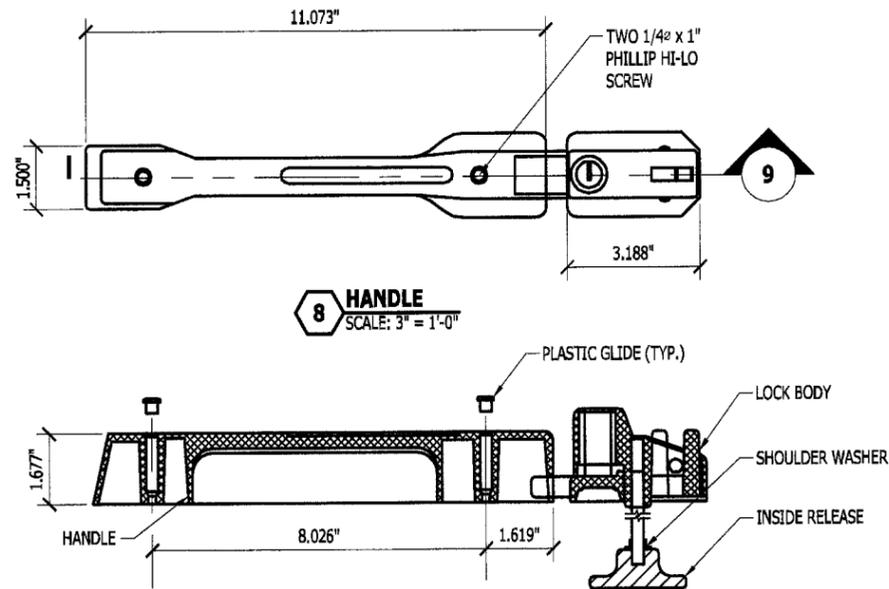


(ELEVATION)

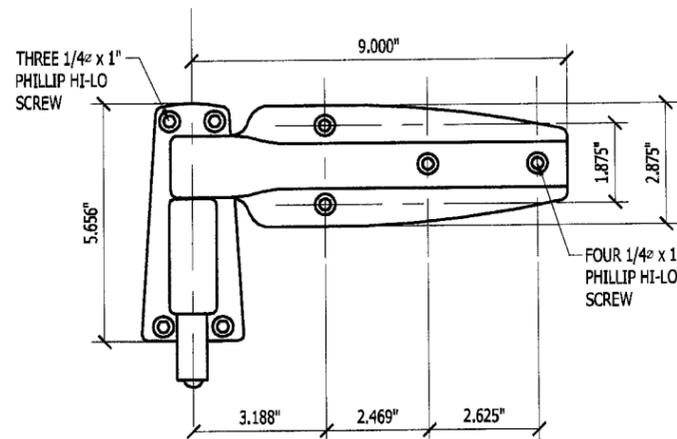
**REACH-IN DOOR UNEXPOSED TO EXTERIOR**

SCALE: 3/8" = 1'-0"

46"x91 3/4" MAX DS WITH 30"x30" DOOR  
OPENING TYPE WA OR WB OR MIX & MATCH



**9 SECTION**  
SCALE: 3" = 1'-0"



**10 HINGES**  
SCALE: 3" = 1'-0"

PRODUCT REVISED  
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By *Heung A. Ma*  
Miami Dade Product Control  
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website: www.knezevich.com

**WALK-IN COOLER / FREEZER**  
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1	05/04/2010	AWK	CHANGE HINGE INFORMATION AND GENERAL NOTES

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*JWK*  
5/17/10

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