



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
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/economy

NOTICE OF ACCEPTANCE (NOA)

Nor-Lake, Incorporated
727 Second Street, PO Box 248
Hudson, WI 54016

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: Walk-In Coolers and Freezers

APPROVAL DOCUMENT: Drawing No. KC15-0412, titled " Walk-In Cooler/Freezer ", sheets 1 through 8 of 8, prepared by Knezevich Consulting, LLC, dated June 03, 2015, signed and sealed by J. W. Knezevich, P.E., on June 12, 2015, 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 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 NOA #14-1001.06 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, E-5 & E-6 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
10/02/2015

NOA No. 15-0618.15
Expiration Date: 05/10/2018
Approval Date: 10/02/2015
Page 1

Nor-Lake, Incorporated

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 00-1212.01

A. DRAWINGS

1. *Drawing No. 00-094, titled "Walk-in Cooler/Freezer", prepared by Knezevich & Associates, Inc., dated December 7, 2000, last revision #3 dated April 19, 2001, sheets 1 through 5 of 5, signed and sealed by V. J. Knezevich, P.E.*

B. TESTS

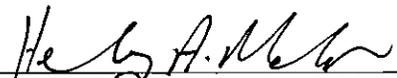
1. *Test report on 24 Hour Live Load Test, Large Missile Impact Test, Cyclic Load Test and Uniform Static air Pressure Test, Axial Load Test, and Racking load Test on Metal Sheathed Urethane Foam Filled Modular Panel Walk-in Coolers / Freezers, prepared by Construction Testing Corporation, Report No. 00-027, dated November 6, 2000, signed and sealed by Yamil Kuri, P.E.*

C. CALCULATIONS

1. *Calculation titled "Walk-in Cooler / Freezer", dated 12/07/2000, pages 1 through 27 of 27, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*
2. *Calculation titled "Walk-in Cooler / Freezer", dated 03/13/2001, 3 pages, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Mill Certified Test Report issued by Thyssen Krupp Stahl, dated 11/01/2000, with the Chemical analysis and Mechanical Properties for 27 gauge Steel conforming to ASTM A-875.*
2. *Mill Certified Test Report issued by Viking Materials, Inc., dated 03/21/2000, with the Chemical composition and Mechanical Properties for 26 gauge Steel Regular Spangle.*
3. *Mill Certified Test Report issued by Scottsboro, dated 01/04/00, with the Chemical composition and Mechanical Properties for 0.032" thick 3003-H14 Aluminum Alloy.*
4. *Tensile Test Report No. CTL #1106F, prepared by Certified Testing Laboratories, dated 11/08/2000, signed and sealed by Ramesh Patel, P.E.*
5. *Tensile Test Report No. CTL #1107F, prepared by Certified Testing Laboratories, dated 11/08/2000, signed and sealed by Ramesh Patel, P.E.*
6. *Report #R8058, by UL, dated 07/25/97, for Flame Spread Index and Smoke Developed Index.*
7. *Report #R8058, by UL, dated 03/03/98, for Flame Spread Index and Smoke Developed Index.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0826.04

A. DRAWINGS

1. *Drawing No. 00-094, titled " Walk-In Cooler/Freezer ", sheets 1 through 5 of 5, prepared by Knezevich & Associates, Inc., dated December 07, 2000, last revision #4 dated July 10, 2002 signed and sealed by V. J. Knezevich, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Design Calculations and structural analysis, prepared by Knezevich & Associates, Inc., pages 1 through 5 of 5, dated August 09, 2002, signed and sealed by V. J. Knezevich, P.E.*

D. MATERIAL CERTIFICATIONS

1. *None.*

E. STATEMENTS

1. *Statement letter of conformance, dated August 09, 2002, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0926.07

A. DRAWINGS

1. *Drawing No. 05-387, titled " Walk-In Cooler/Freezer ", sheets 1 through 5 of 5, prepared by Thornton-Tomasetti Group, dated September 22, 2005, last revision #1 dated September 22, 2005, signed and sealed by J. W. Knezevich, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Design Calculations and structural analysis, prepared by Thornton-Tomasetti group, pages 1 through 13 of 13, dated September 22, 2005, signed and sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*



Henry A. Makar, P.E., M.S.
Product Control Section Supervisor
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #06-0125.02

A. DRAWINGS

1. *None.*

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.*

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #08-0602.11

A. DRAWINGS

1. *Drawing No. 08-107, titled "Walk-In Cooler/Freezer", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated May 12, 2008, signed and sealed by J. W. Knezevich, P.E., on May 12, 2008.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

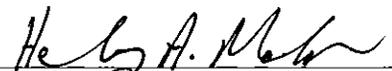
E. MATERIAL CERTIFICATIONS

1. *None.*

6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0425.02

A. DRAWINGS

1. *Drawing No. 11-NOR-02, titled "Walk-In Cooler/Freezer", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated March 21, 2011, signed and sealed by J. W. Knezevich, P.E., on April 20, 2011.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor

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B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building and Neighborhood Compliance department.*

E. MATERIAL CERTIFICATIONS

1. *None.*

7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #12-0425.01

A. DRAWINGS

1. *Drawing No. 11-NOR-02, titled " Walk-In Cooler/Freezer ", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated March 21, 2011, last revision #1 dated May 09, 2012, signed and sealed by J. W. Knezevich, P.E., on May 14, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).*

E. MATERIAL CERTIFICATIONS

1. *None.*

8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 13-0514.19

A. DRAWINGS

1. *Drawing No. 11-NOR-02, titled " Walk-In Cooler/Freezer ", sheets 1 through 7 of 7, prepared by Knezevich Consulting, LLC, dated March 21, 2011, last revision #3 dated October 25, 2013, signed and sealed by J. W. Knezevich, P.E.*

B. TESTS

1. *Test report on 24 Hour Live Load Test, 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*



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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

/ Freezers, prepared by American Testing Lab of South Florida, Report ATLSF 0126.01-12, dated July 16, 2013, signed and sealed by Henry Hattem, P.E.

C. CALCULATIONS

1. *Calculation titled "Walk-in Cooler / Freezer", dated 08/09/2013, pages 1 through 50 of 50, and A1-A5, prepared by Knezevich Consulting, Inc., signed and sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Die Drawings.*

9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 14-1001.06

A. DRAWINGS

1. *Drawing No. 11-NOR-02, titled "Walk-In Cooler/Freezer", sheets 1 through 7 of 7, prepared by Knezevich Consulting, LLC, dated March 21, 2011, last revision #4 dated September 08, 2014, signed and sealed by J. W. Knezevich, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Load Test and Uniform Static air Pressure Test, on Metal Sheathed Urethane Foam Filled Modular Panel Walk-in Coolers / Freezers, prepared by American Testing Lab of South Florida, Report ATLSF 0505.01-14, dated July 25, 2014, signed and sealed by Stephen W. Warter, P.E.*

C. CALCULATIONS

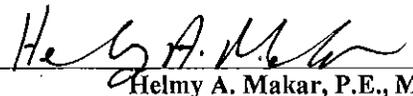
1. *Calculation titled "Walk-in Cooler / Freezer", dated 09/15/2014, pages 1 through 9, prepared by Knezevich Consulting, Inc., signed and sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Tensile Test Report No. QCM 14EM-436, prepared by QC Metallurgical, Inc., dated 05/20/2014, signed and sealed by Frank E. Grate Jr., P.E.*



Helmy A. Makar, P.E., M.S.
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

10. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. KC15-0412, titled "Walk-In Cooler/Freezer", sheets 1 through 8 of 8, prepared by Knezevich Consulting, LLC, dated June 03, 2015, signed and sealed by J. W. Knezevich, P.E., on June 12, 2015.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Calculation titled "Walk-in Cooler / Freezer", dated 06/11/2015, pages 1 through 8, prepared by Knezevich Consulting, LLC, signed and sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*



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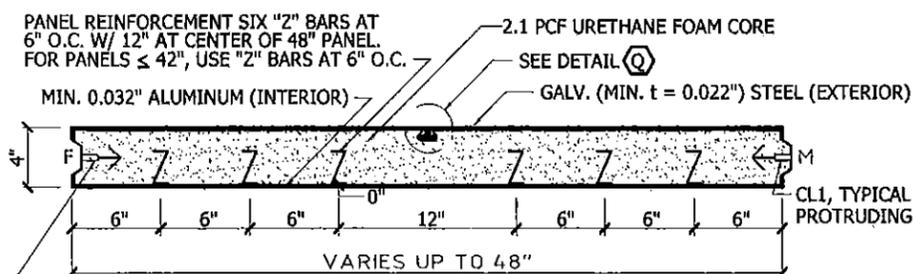
GENERAL NOTES:

- THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A WALK-IN COOLER/FREEZER SYSTEM ANALYZED WITH THE PROVISIONS SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES, PRODUCT CONTROL SECTION. THESE DOCUMENTS COMPLY WITH THE 2014, 5th EDITION FLORIDA BUILDING CODE (FBC), HIGH VELOCITY HURRICANE ZONE PROVISIONS.
- 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 1710.3.
- DESIGN LOADS:
 - A) ROOF:
 - A.1) DEAD LOAD: PANEL TYPE 1 3.5 PSF
 - PANEL TYPE 2 5.3 PSF
 - A.2) LIVE LOAD: 30.0 PSF
 - A.3) MAXIMUM WEIGHT OF MECHANICAL EQUIPMENT IS 330 LBS. PER CONDENSING UNIT, SPACE UNITS AT LEAST 4'-0" O.C.
 - B) WALLS:
 - B.1) DEAD LOAD: PANEL TYPE 1 1.6 PSF
 - PANEL TYPE 2 2.1 PSF
 - C) FLOOR:
 - C.1) DEAD LOAD: FLOOR PANEL 5.0 PSF
 - C.2) LIVE LOAD: INSULATED FLOOR 250 PSF
 - "FLOORLESS" 250 PSF
 - D) WIND LOADS SHALL BE DETERMINED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION AND THE CODE PROVISIONS AT THE TIME OF PERMIT BASED ON THE SITE SPECIFIC CONDITIONS. SEE TABLE 3 ON SHEET 2 FOR ALLOWABLE WIND LOADS USED IN THE DESIGN OUTLINED WITHIN THESE DOCUMENTS. THESE LOADS ARE ASD LOADS BASED ON WIND LOAD RESISTANCE TESTING. WIND LOADS DETERMINED IN ACCORDANCE WITH FBC SECTION 1609 SHALL BE MULTIPLIED BY THE ASD LOAD FACTOR OF 0.6 FOR COMPARISON WITH ALLOWABLE LOADS ON THESE DOCUMENTS.
- THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE SPECIFIC APPLICATION OF THIS WALK-IN COOLER/FREEZER SYSTEM.
- THESE DOCUMENTS REPRESENT THE STRUCTURAL AND MATERIAL REQUIREMENTS OF THE WALK-IN COOLER/FREEZER STRUCTURE. THESE APPROVAL DOCUMENTS SHALL NOT BE APPLIED BY THE CONTRACTOR, ON A SPECIFIC SITE WITHOUT THE INVOLVEMENT OF AN ARCHITECT OR ENGINEER OF RECORD (A/E OF RECORD). THE A/E OF RECORD SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE CODE REQUIREMENTS OF A SPECIFIC INSTALLTION INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - A) VERIFY THE SITE SPECIFIC WIND LOAD REQUIREMENTS ARE WITHIN THE CRITERIA USED TO DEVELOP THESE DOCUMENTS AND THE UNIT IS CONFIGURED IN COMPLIANCE WITH THE LIMITATIONS HEREIN.
 - B) VERIFY THE FOUNDATION DESIGN IS ADEQUATE TO RESIST THE FOUNDATION LOADS IDENTIFIED IN TABLE 1.
 - C) VERIFY THE EXISTING BUILDING IS ADEQUATE TO RESIST THE SUPERIMPOSED LOADS IDENTIFIED IN TABLE 1.
 - D) WEATHER PROTECTION, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL REQUIREMENTS ARE OUTSIDE THE SCOPE OF THESE DOCUMENTS. DETERMINE AND/OR PROVIDE FOR COMPLIANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

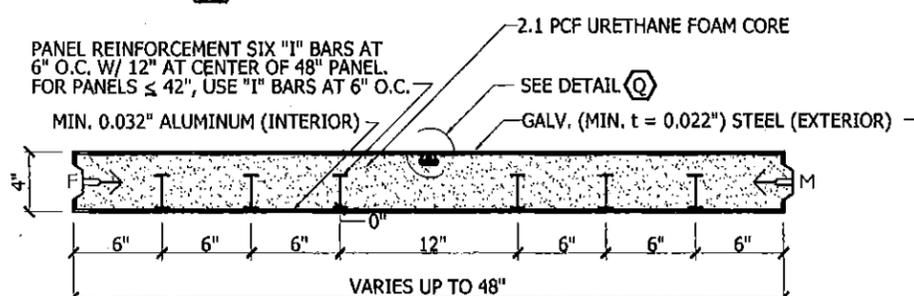
- THESE APPROVAL DOCUMENTS COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE APPROVAL DOCUMENTS, THE BUILDING OFFICIAL SHALL REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION.
- 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. ANCHORS ARE APPROVED FOR USE IN UNCRACKED CONCRETE ONLY WITH A MIN. $F_c=3000$ P.S.I.
- AN ALLOWABLE STRESS INCREASE IS NOT USED IN THE DESIGN OF THE COOLER/ FREEZER UNIT NOR ITS ATTACHMENTS.
- DISSIMILAR METALS IN CONTACT WITH ALUMINUM SHALL BE PROTECTED IN ACCORDANCE WITH ALUMINUM DESIGN MANUAL, 2010, CHAPTER M.7.

POLYURETHANE FOAM SANDWICH PANEL SPECIFICATIONS

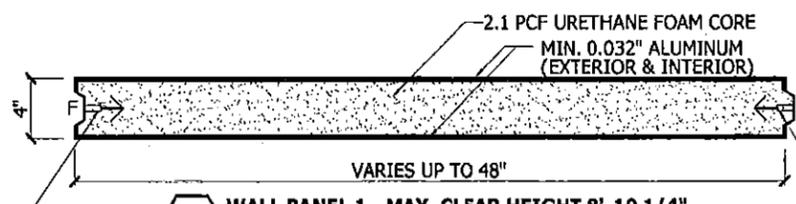
- WALL & ROOF COMPOSITE SANDWICH PANELS ARE COMPRISED OF ALUMINUM OR STEEL FACINGS WITH FOAMED-IN-PLACE POLYURETHANE CORES. THICKNESS AND MATERIAL OF FACINGS SHALL BE AS SHOWN ON THE DRAWINGS.
- ALUMINUM FACINGS SHALL BE 3003-H14 ALLOY FOR INTERIOR AND EXTERIOR USE.
- STEEL FACINGS USED ON WALL PANELS SHALL COMPLY WITH ASTM A 875 CQ WITH A MIN. $F_y= 31.0$ KSI, MIN. THICKNESS OF 0.022" AND A GF45 COATING
- STEEL FACINGS USED ON ROOF PANELS , TOP SIDE, SHALL COMPLY WITH ASTM A653 CS WITH A MIN. $F_y = 45$ ksi, MIN. THICKNESS OF 0.022" AND A G90 COATING.
- STEEL PLATES, BENT PLATES, CHANNELS AND ANGLES SHALL COMPLY WITH ASTM A653 CS WITH A MIN. $F_y=31$ ksi AND A G90 COATING. THICKNESS AS DESIGNATED.
- FOAM CORE SHALL BE A TWO COMPONENT POLYURETHANE RIGID FOAM MANUFACTURED FROM DOW VORACOR CR1140 POLYOL / CE108 ISOCYANATE EXPANDED WITH HFC-245FA ACHIEVING AN AVERAGE DENSITY OF 2.1 PCF AND A MINIMUM SAMPLE DENSITY OF 1.9 PCF.
- POLYURETHANE 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.
- METAL FACINGS AND CAMLOCKS SHALL BE ADHERED TO FOAM WITH A SPRAY COATING OF ONE OF THE FOLLOWING ADHESIVES:
 - A. 3M SCOTCH-WELD 94ET CLEAR OR RED ADHESIVE AT A RATE OF 0.547 GRAMS DRY WEIGHT PER SQUARE FOOT.
 - B. 3M SCOTCH-WELD NEOPRENE CONTACT ADHESIVE 5, GREEN OR LIGHT YELLOW, AT A RATE OF 0.547 GRAMS DRY WEIGHT PER SQUARE FOOT.
- FOR SPECIFIC REQUIREMENTS OF FOAM PLASTICS IN WALK-IN COOLERS, SEE SECTION 2603.4.1.2 AND 2603.4.1.3.
- TAPPING PLATES WITHIN DOOR FRAME SHALL BE 1/2" HDPE PLASTIC WITH A MINIMUM SIZE OF 2" X 2" AND A MAXIMUM SIZE OF 2" LARGER THAN THE SCREW PATTERN. PROVIDE TAPPING PLATES AT ALL DOOR HARDWARE AND STEEL FLOOR ANGLE LOCATIONS.



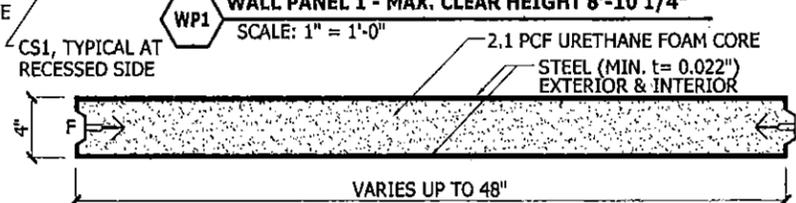
RP1 ROOF PANEL 1 - MAX. LENGTH 9'-6"
SCALE: 1" = 1'-0"



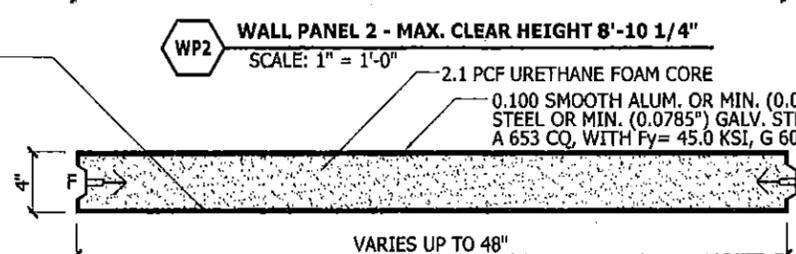
RP2 ROOF PANEL 2 - MAX. LENGTH 14'-7"
SCALE: 1" = 1'-0"



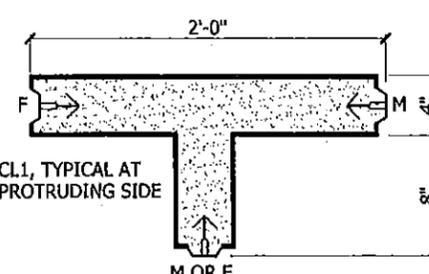
WP1 WALL PANEL 1 - MAX. CLEAR HEIGHT 8'-10 1/4"
SCALE: 1" = 1'-0"



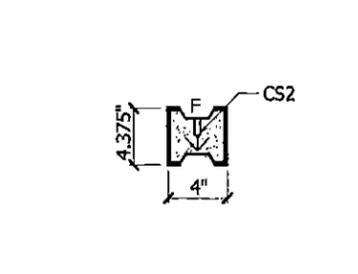
WP2 WALL PANEL 2 - MAX. CLEAR HEIGHT 8'-10 1/4"
SCALE: 1" = 1'-0"



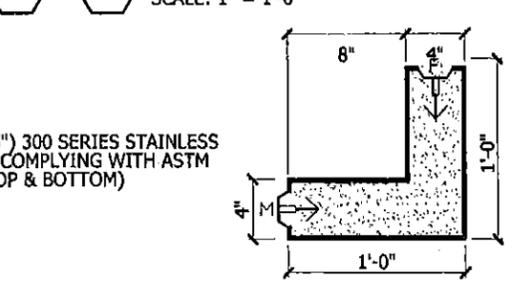
FP FLOOR PANEL
SCALE: 1" = 1'-0"



WP1-T OR WP2-T WALL PANEL (TEE SECTION)
SCALE: 1" = 1'-0"



WP1-S OR WP2-S FLOOR Screenshot
SCALE: 1" = 1'-0"



WP1-C OR WP2-C WALL PANEL (CORNER SECTION)
SCALE: 1" = 1'-0"

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 15-0618.15
Expiration Date 05/10/2018
By *[Signature]*
Miami Dade Product Control

KNEZEVICH CONSULTING
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T 954.772.6224 • F 954.320.6451 • COA 27988
website: www.knezevich.com
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WALK-IN COOLER / FREEZER
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TEL: (715) 384-2223
FAX: (715) 386-6149
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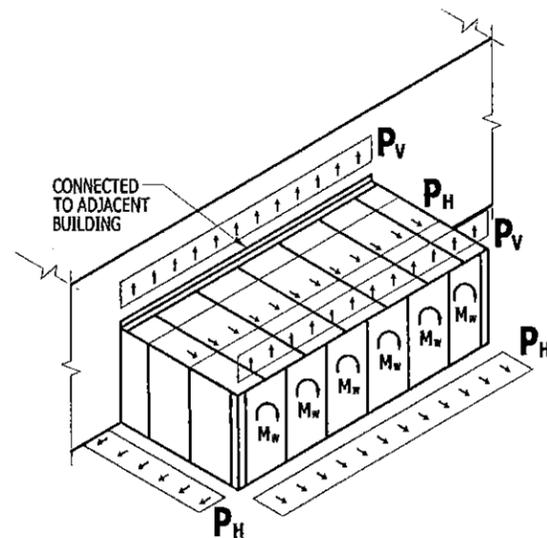
no.	date	by	description
1	06/03/2015	ARV	PREVIOUS DRAWING NUMBER 11-NOR-LAKE

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

drawn by *[Signature]* scale AS NOTED
date 06/03/2015
drawing no. KC15-0412

sheet 1 of 8

TABLE 1	LOADS FOR FOUNDATION DESIGN	
	NET WIND UPLIFT (P_V) AND SHEAR (P_H) FORCES	
	ROOF PANEL MAXIMUM SPAN	
	RP1 = 9'-6"	RP2 = 14'-7"
P_V	-220 # / FT	-450 # / FT
P_H	± 220 # / FT	± 220 # / FT
M_w	± 3,200 FT-LBS	± 3,200 FT-LBS



D ISOMETRIC WITH FOUNDATION WIND LOADS
N.T.S.

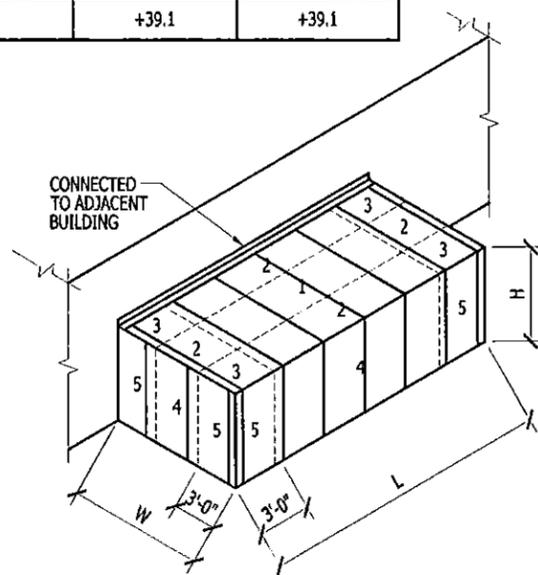
TABLE 1 NOTES:

- NET WIND FORCES REPRESENT THE REACTIONS FROM ALLOWABLE STRESS WIND LOAD COMBINATIONS ASSUMING MAXIMUM ROOF PANEL SPANS AND MAXIMUM WALL PANEL HEIGHTS.
- P_V REPRESENTS THE VERTICAL WIND REACTION.
- P_H REPRESENTS THE HORIZONTAL WIND REACTION.
- M_w REPRESENTS THE MOMENT PARALLEL TO THE PLANE OF THE FRONT WALLS, RESISTING OVERTURNING. ASSUMED TO ACT ON EACH PANEL.

TABLE 3	ALLOWABLE WIND LOADS (PSF)										
	ZONES	ROOF					WALL				
		1	2	3	1	2	3	4	5	4	5
NEGATIVE	-44.2	-62.0	-78.5	-43.4	56.9	-66.1	-42.6	-49.8	-42.6	-49.8	
POSITIVE	+16.6		+15.9			+39.1		+39.1			

TABLE 3 NOTES:

- ALLOWABLE WIND LOADS SHOWN REPRESENT THE COMPONENT WIND LOADS USED IN THE DESIGN SHOWN HEREIN. TO DETERMINE COMPLIANCE, SITE SPECIFIC WIND LOADS SHALL BE MULTIPLIED BY THE LOAD FACTOR 0.6 WHEN COMPARING TO THESE VALUES.
- SITE SPECIFIC WIND LOADS DETERMINED IN ACCORDANCE WITH GENERAL NOTES 3.D AND 5.A SHALL BE LESS THAN OR EQUAL TO THESE LOADS.
- ALLOWABLE WIND LOADS ARE BASED ON A FACTOR OF SAFETY OF 1.5 FOR WALL PANELS AND 2.0 FOR ROOF PANELS IN ACCORDANCE WITH THE HVHZ PROVISIONS OF THE FBC.



(SEE TABLE 2 FOR WIDTH/LENGTH LIMITATION)

E ISOMETRIC WITH WIND ZONES
N.T.S.

TABLE 2	PANEL SHEARWALL REQUIREMENTS					
	UNIT HEIGHT (H) FT - IN	PANEL HEIGHT	UNIT WIDTH (W) FT - IN	MINIMUM NUMBER OF 48" PANELS ON EXTERIOR WALL FORMING UNIT LENGTH (L)		
				WITH NO PARTITION WALL TEE SECTIONS	WITH 1 PARTITION WALL TEE SECTIONS	WITH 2 PARTITION WALL TEE SECTIONS
7'-7"	6'-11"	$W \leq 8'-10"$	2	2	2	
		$8'-10" < W \leq 12'-6"$	3	3	3	
		$12'-6" < W \leq 13'-9"$	3	3	3	
		$13'-9" < W \leq 14'-7"$	4	3	3	
8'-7"	7'-11"	$W \leq 7'-8"$	2	2	2	
		$7'-8" < W \leq 10'-10"$	3	3	3	
		$10'-10" < W \leq 11'-10"$	3	3	3	
		$11'-10" < W \leq 14'-7"$	4	4	3	
9'-7"	8'-11"	$W \leq 8'-0"$	3	3	2	
		$8'-0" < W \leq 9'-3"$	3	3	3	
		$9'-3" < W \leq 10'-10"$	4	3	3	
		$10'-10" < W \leq 11'-9"$	4	4	3	
		$11'-9" < W \leq 13'-3"$	4	4	4	
		$13'-3" < W \leq 14'-7"$	4	4	4	

TABLE 2 NOTES:

- PARTITION WALLS ARE OPTIONAL. ONE OR MORE PARTITION WALLS MAY BE UTILIZED IN THE COOLER LAYOUT.
- WHERE PARTITION WALLS ARE USED, THE NUMBER OF FULL PANELS REQUIRED ON FRONT WALL MAY BE ADJUSTED AS SHOWN IN THIS TABLE BASED ON THE NUMBER OF TEE SECTIONS ON THE FRONT WALL OF THE UNIT.

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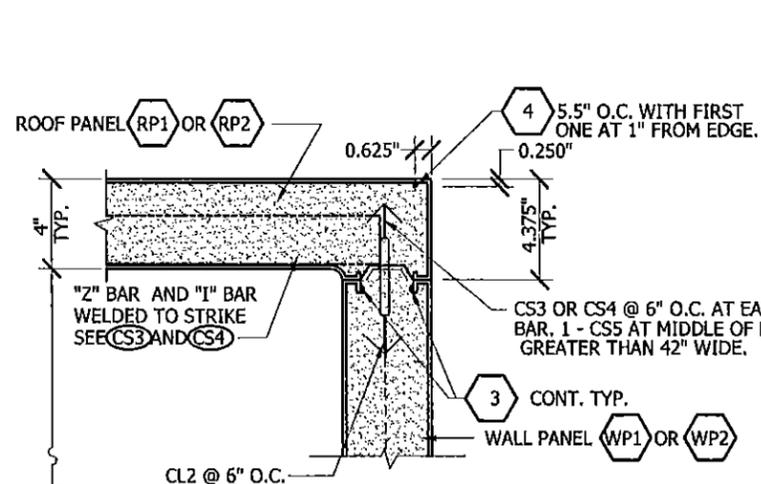
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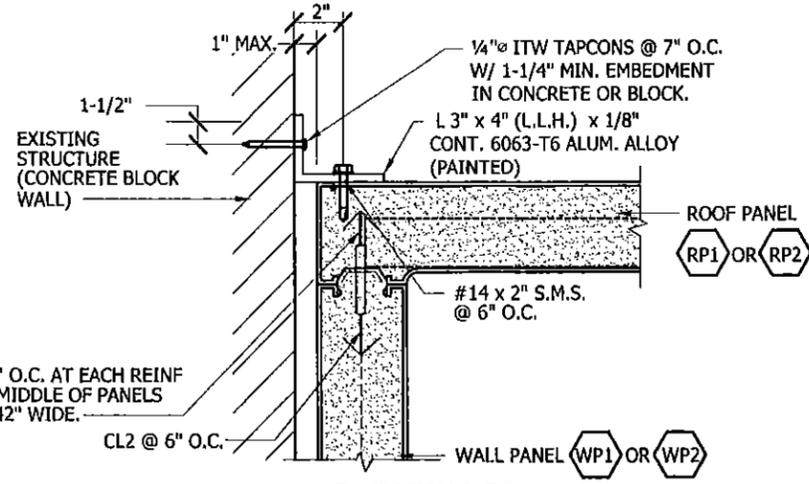
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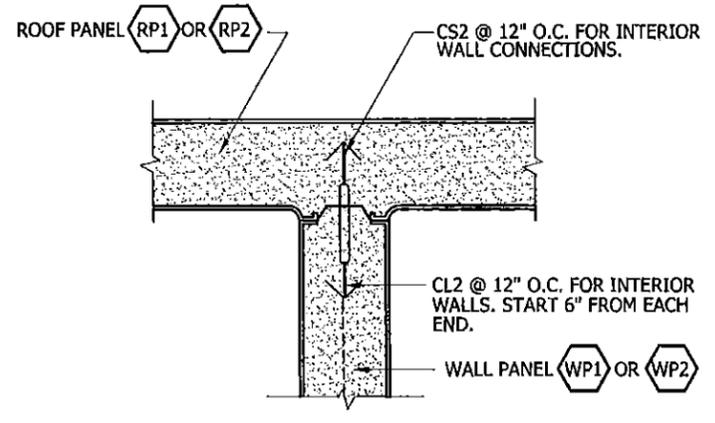
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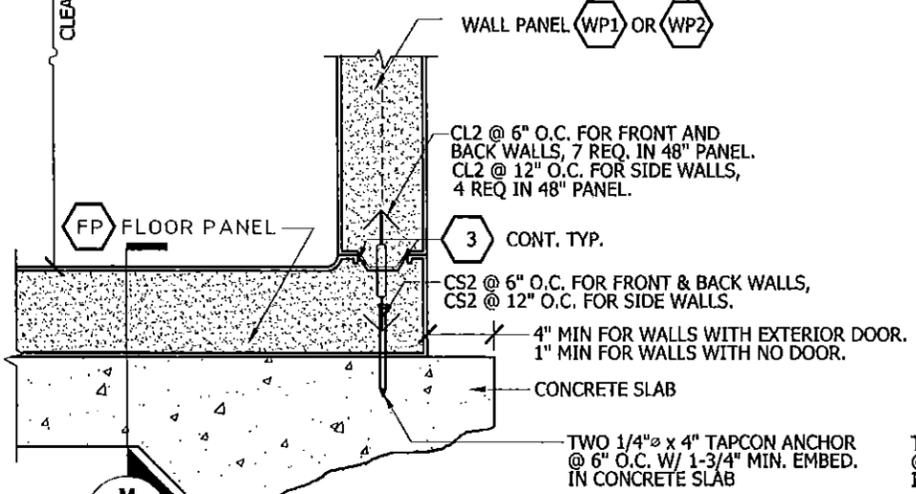
F FRONT WALL TO CEILING
SCALE: 1-1/2" = 1'-0"



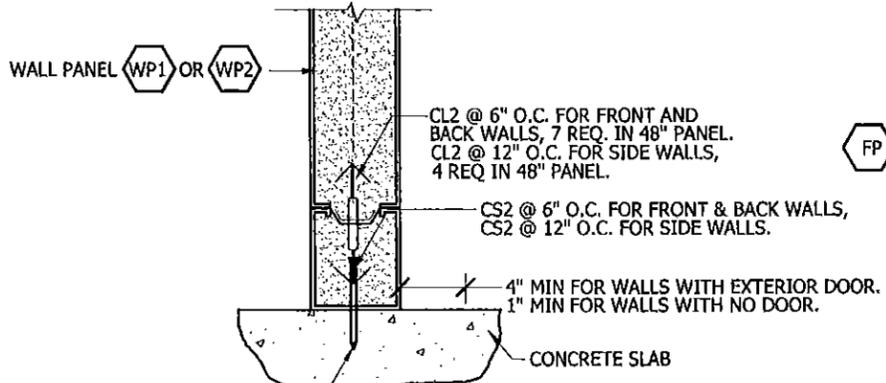
G BACK WALL TO EXISTING BUILDING
SCALE: 1-1/2" = 1'-0"



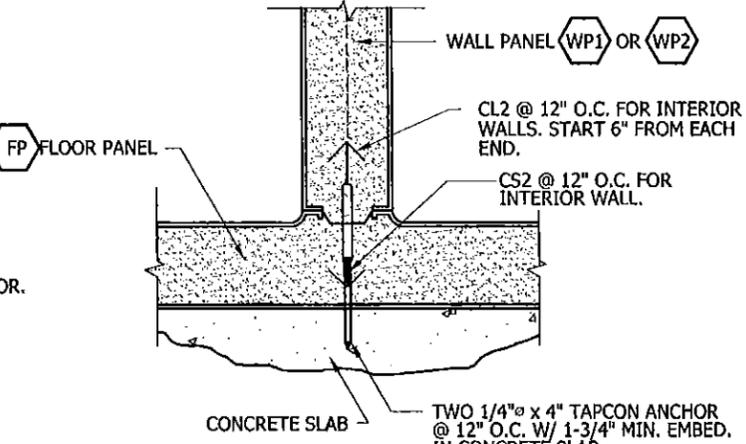
H INTERIOR WALL TO CEILING
SCALE: 1-1/2" = 1'-0"



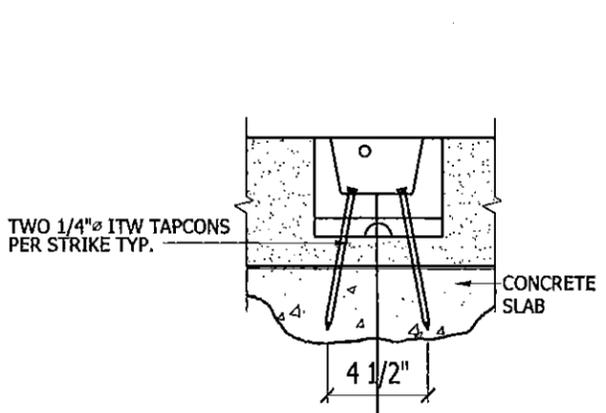
J WALL TO GROUND WITH FLOOR
SCALE: 1-1/2" = 1'-0"



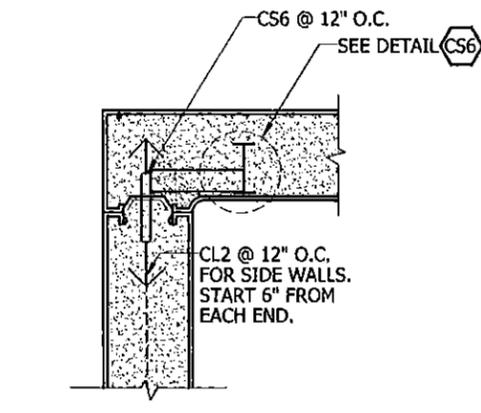
K WALL TO GROUND WITH SCREED
SCALE: 1-1/2" = 1'-0"



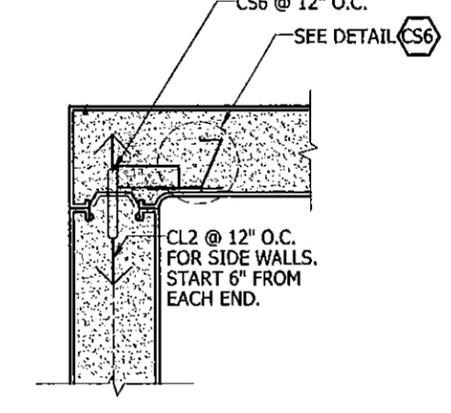
L INTERIOR WALL TO GROUND WITH FLOOR
SCALE: 1-1/2" = 1'-0"



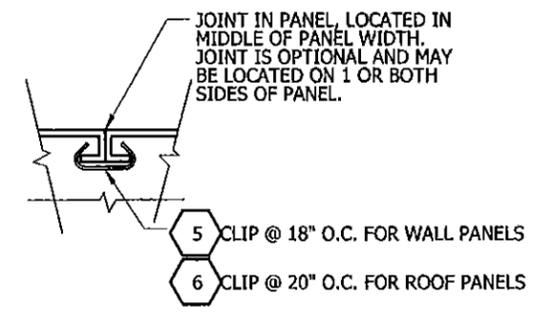
M FLOOR OR SCREED TO CONCRETE
SCALE: 1-1/2" = 1'-0"



N SIDE WALL TO CEILING WITH 'I' BAR
SCALE: 1-1/2" = 1'-0"



P SIDE WALL TO CEILING WITH 'Z' BAR
SCALE: 1-1/2" = 1'-0"



Q ROOF & WALL PANEL SKIN JOINT
SCALE: FULL SIZE

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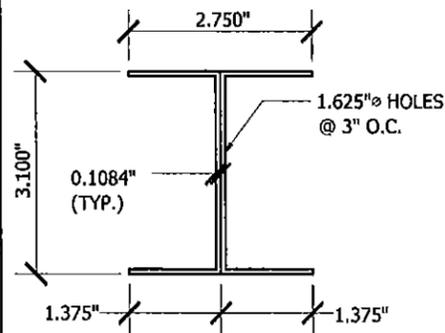
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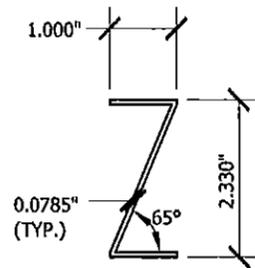
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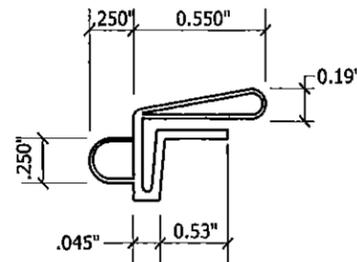
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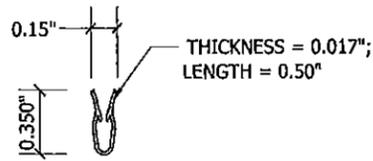
1 "I" - BAR (STEEL)
SCALE: 3" = 1' - 0"
NO GALVANIZING



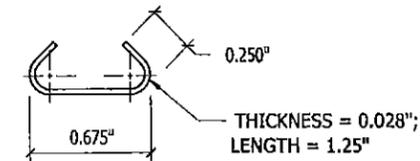
2 "Z" - BAR (STEEL)
SCALE: 3" = 1' - 0"
NO GALVANIZING



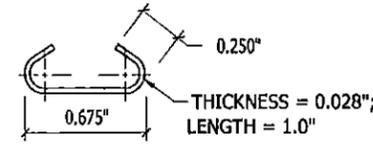
3 PANEL GASKET
SCALE: FULL SIZE - FLEXIBLE PVC
PLACE CONTINUOUS AT MALE
END OF PANEL JOINTS.



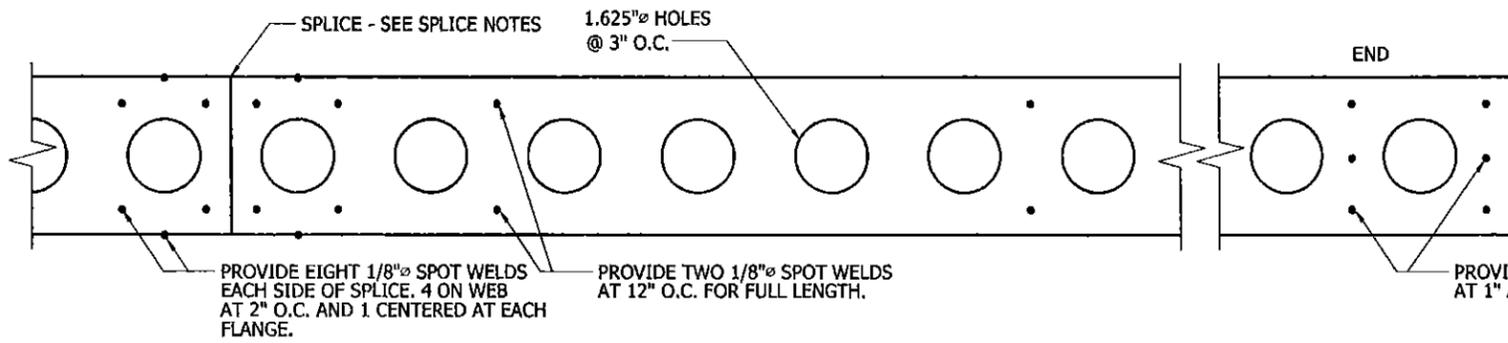
4 STRAIGHT EDGE SKIN CLIP
SCALE: FULL SIZE
NO GALVANIZING (STEEL)



5 WALL PANEL SKIN CLIP
SCALE: FULL SIZE
NO GALVANIZING (STEEL)

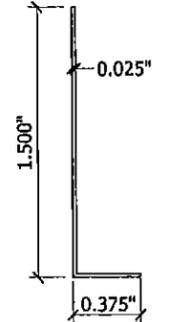


6 ROOF PANEL SKIN CLIP
SCALE: FULL SIZE
NO GALVANIZING (STEEL)



SPLICE NOTES:
"I" - BAR CHANNELS MAY BE SPLICED AS FOLLOWS:
1. ONE CHANNEL MAY BE SPLICED AT 1/4 POINT (+/- 6")
OF THE FULL PANEL LENGTH.
2. SECOND CHANNEL MAY BE SPLICED AT 3/4 POINT (+/- 6")
OF THE FULL PANEL LENGTH.

7 "I" - BAR ELEVATION DETAIL
SCALE: 3" = 1' - 0"



8 SUPPORT BRACKET
SCALE: FULL SIZE
G90 GALVANIZING (STEEL)

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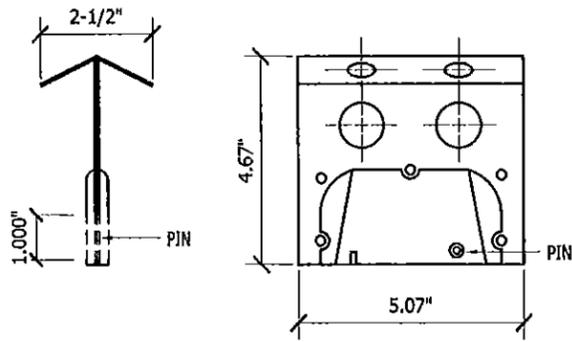
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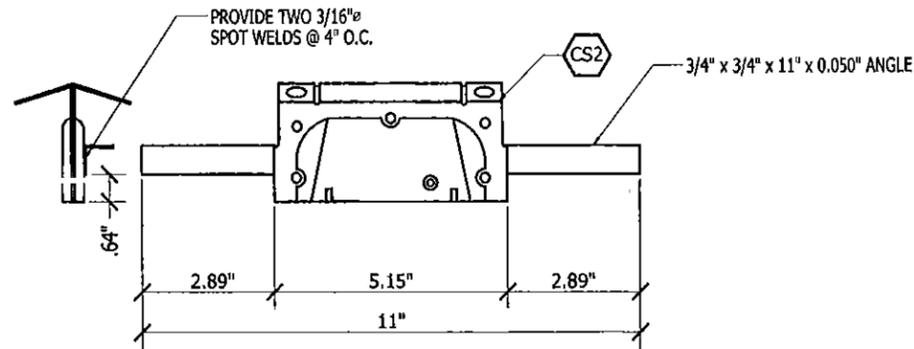
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KASON 1189P DEEP STRIKE
WITH MIN. STEEL WALL THICKNESS 0.033".

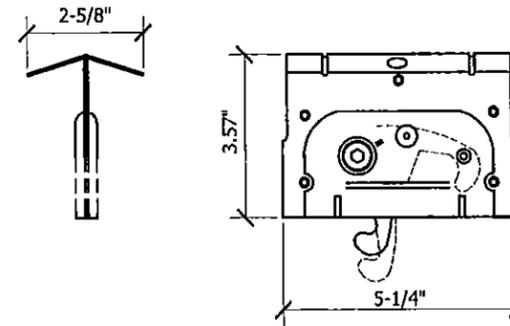
CS1 SCALE: 3" = 1' - 0"

NOTE:
STRAP AND STRIKE MUST
BE SPRAYED WITH ADHESIVE



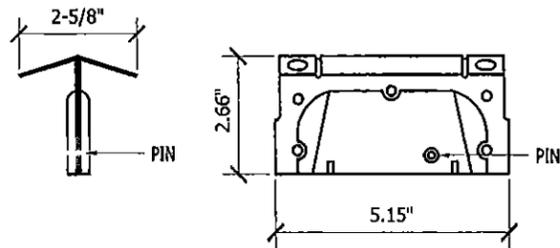
CS2 WITH ANGLE

CS5 SCALE: 3" = 1' - 0"



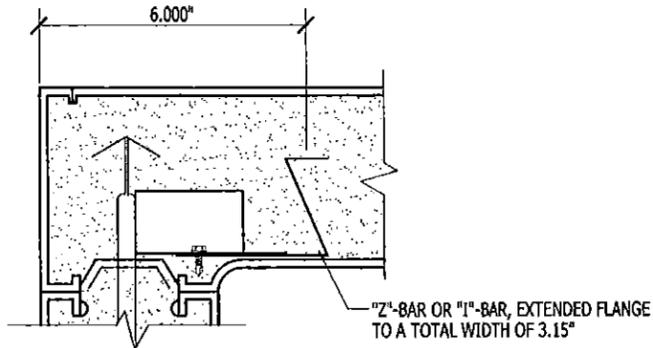
KASON 1188RBP LATCH WITH MIN.
STEEL WALL THICKNESS 0.033".

CL1 SCALE: 3" = 1' - 0"



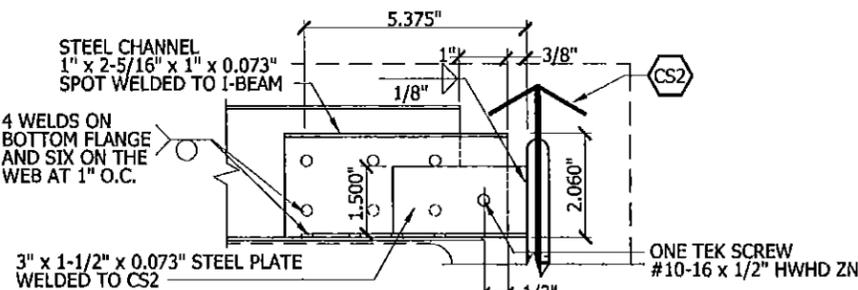
KASON 1188RP WIDE MOUTH STRIKE
WITH MIN. STEEL WALL THICKNESS 0.033".

CS2 SCALE: 3" = 1' - 0"



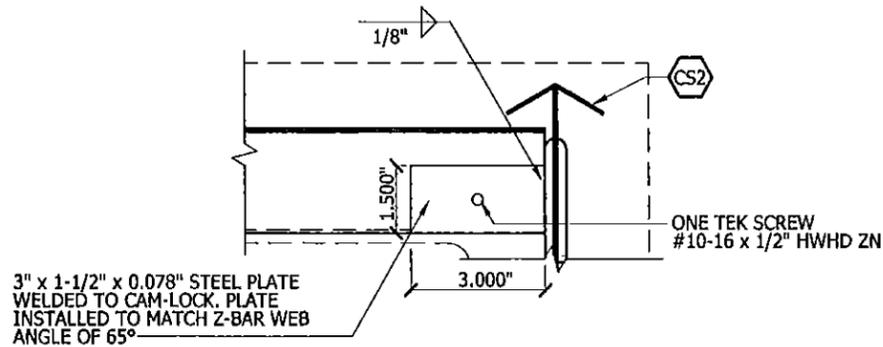
CS2 WITH BENT PLATE

CS6 SCALE: 3" = 1' - 0"



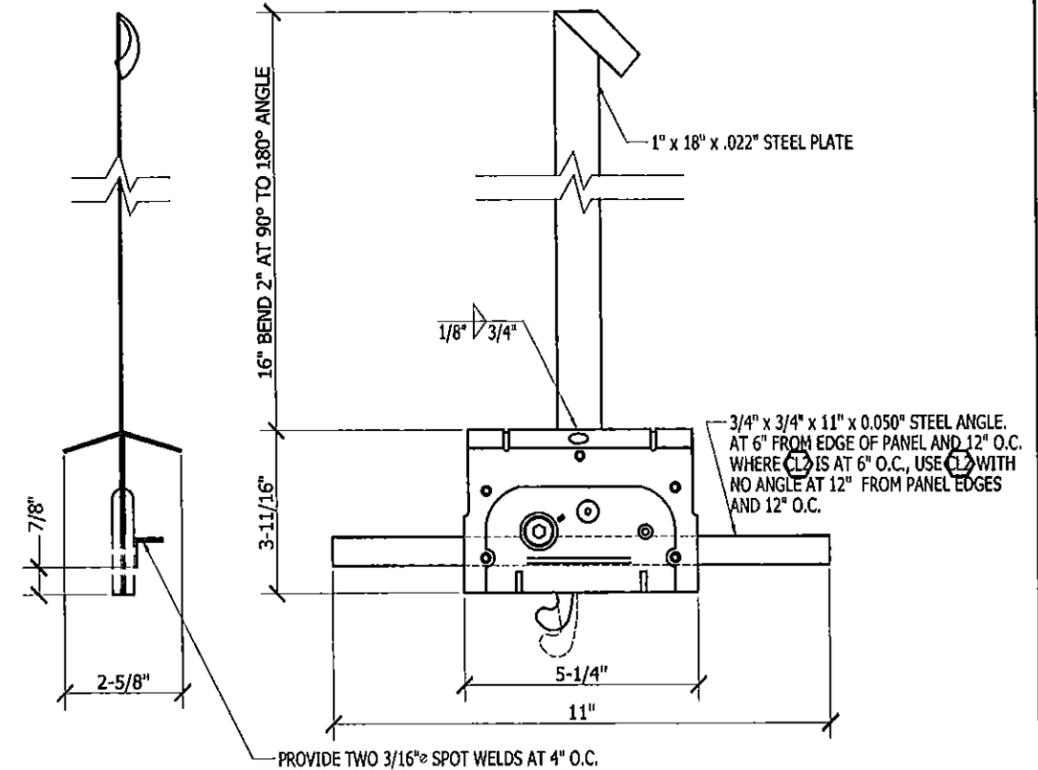
CS2 TO "I"-BAR

CS3 SCALE: 1-1/2" = 1' - 0"



CS2 TO "Z"-BAR

CS4 SCALE: 1-1/2" = 1' - 0"



CL1 WITH STRAP & ANGLE

CL2 SCALE: 3" = 1' - 0"

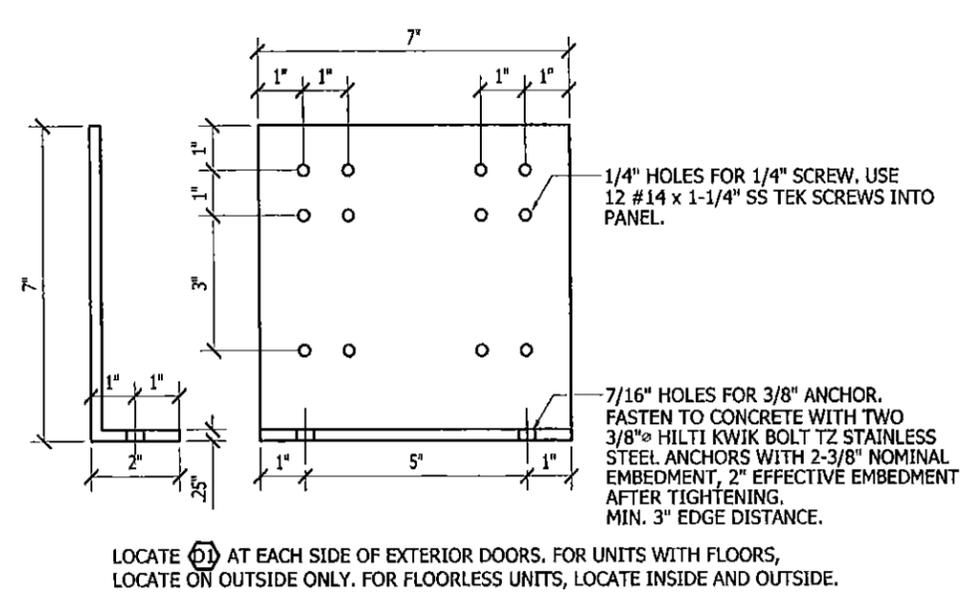
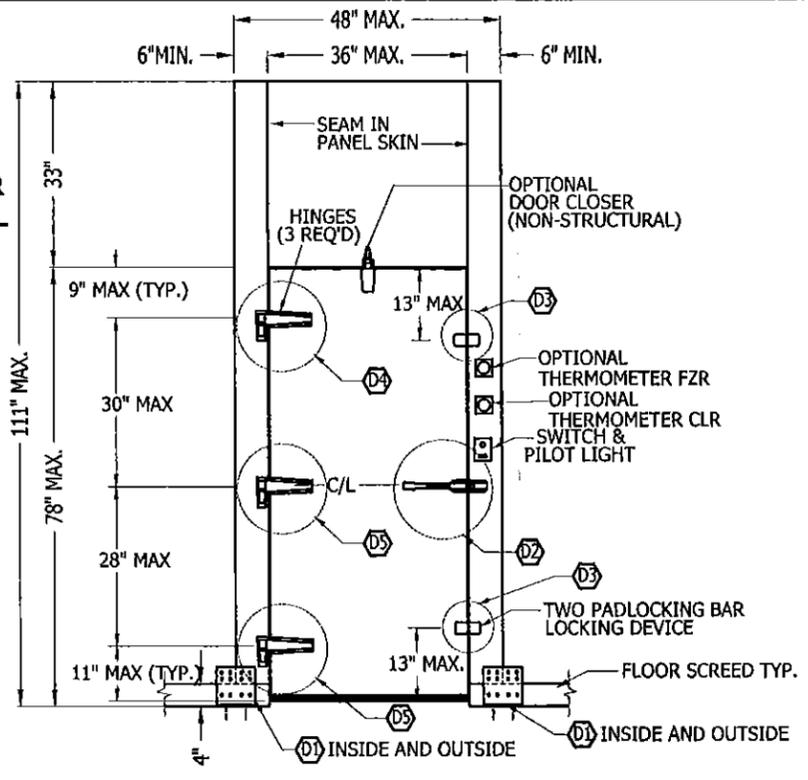
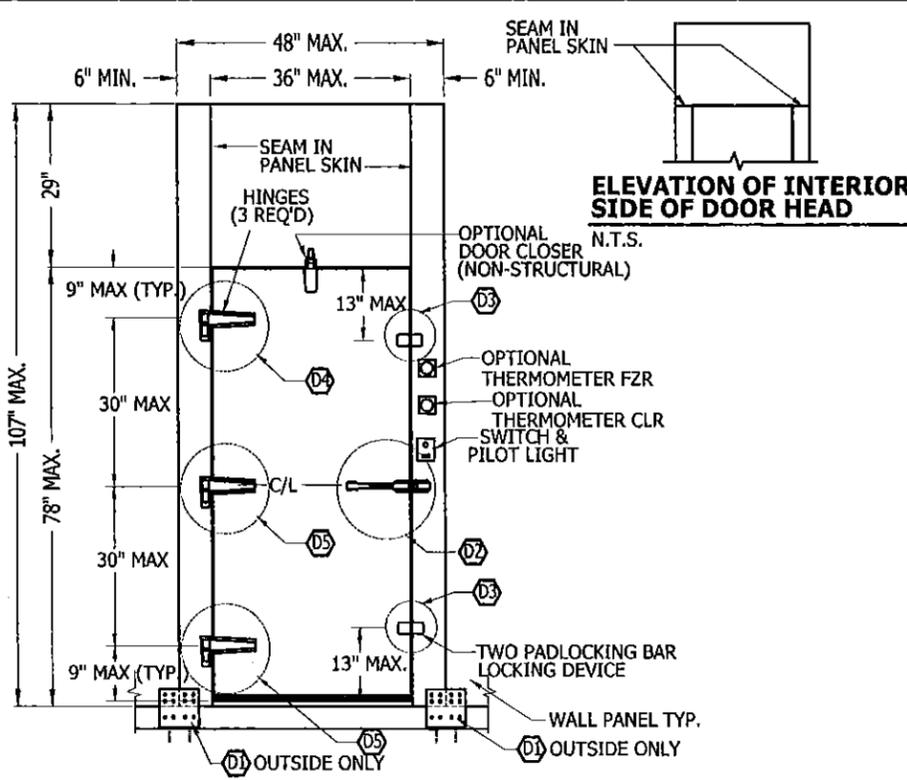
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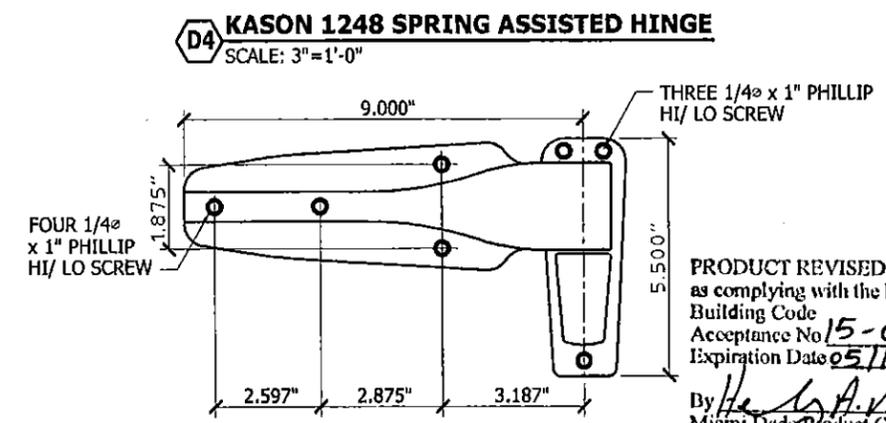
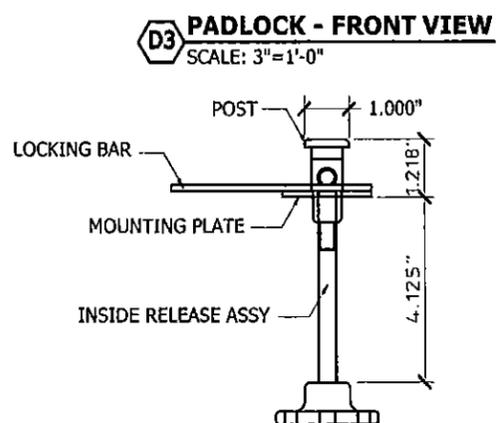
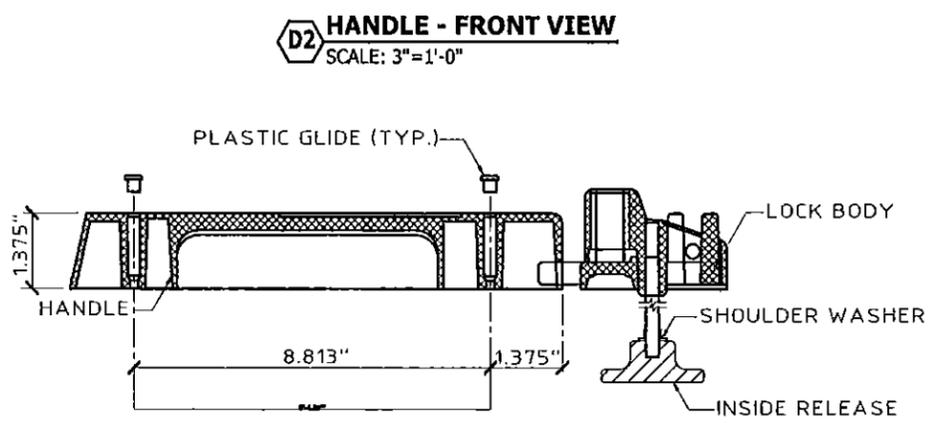
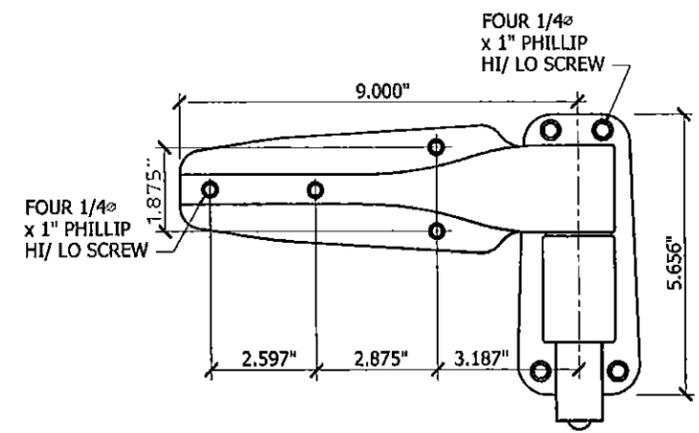
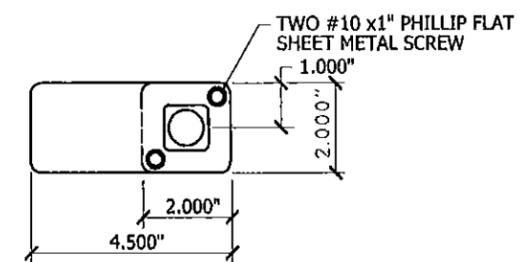
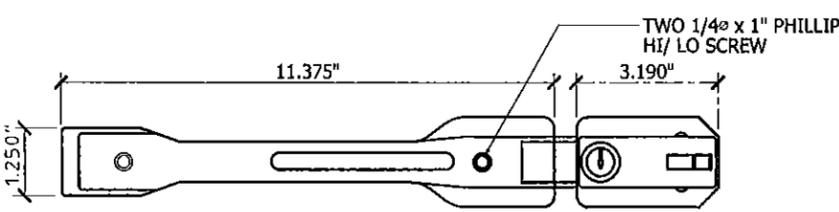
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DA EXTERIOR DOOR WITH FLOOR
SCALE: 3/8" = 1'-0"

DB EXTERIOR DOOR WITHOUT FLOOR
SCALE: 3/8" = 1'-0"



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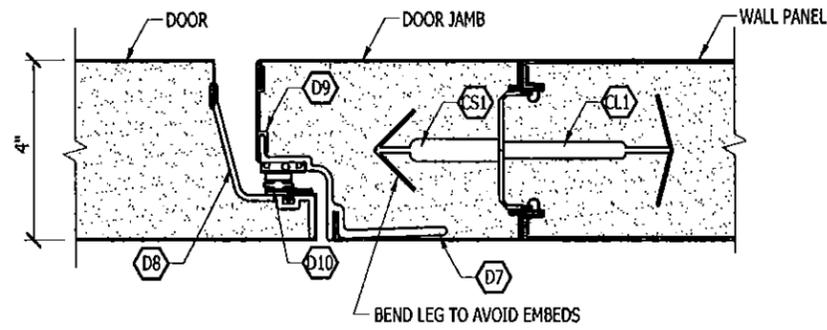
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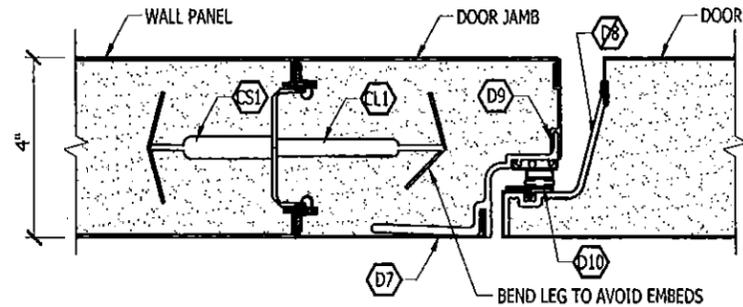
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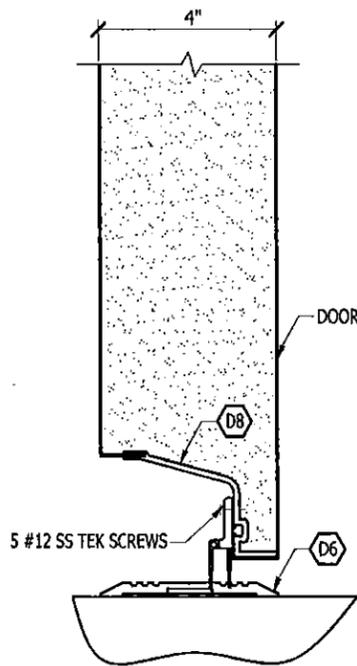
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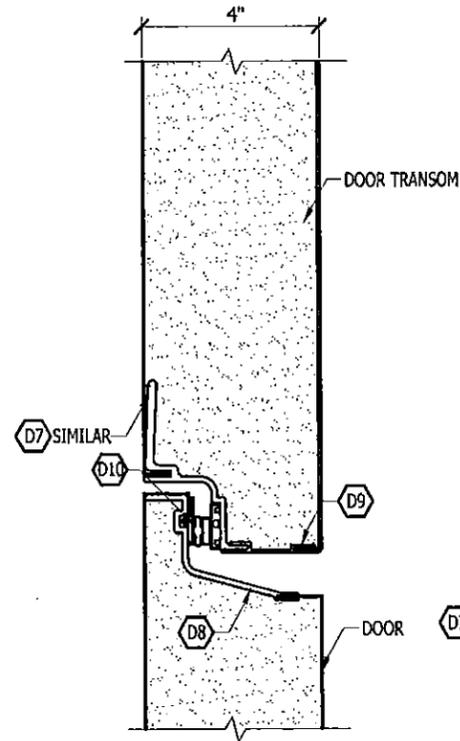
DC DOOR FRAME AT HINGE
SCALE: 3" = 1' - 0"



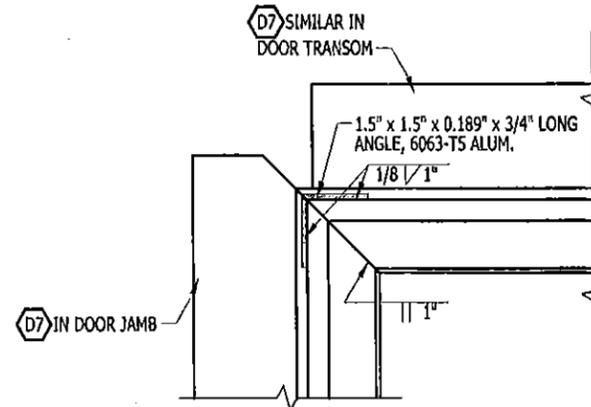
DD DOOR FRAME AT HANDLE
SCALE: 3" = 1' - 0"



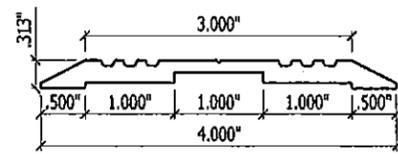
DE DOOR SILL
SCALE: 3" = 1' - 0"



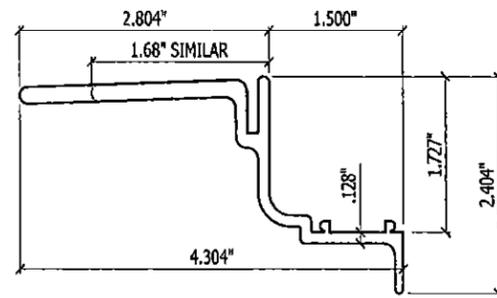
DF DOOR HEADER
SCALE: 3" = 1' - 0"



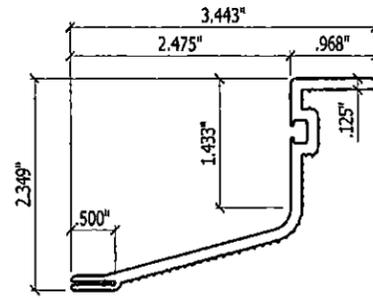
DG DOOR JAMB TO DOOR TRANSOM
SCALE: 3" = 1' - 0"



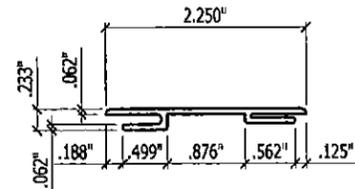
D6 DOOR THRESHOLD
HALF SCALE 6063-T6 ALUM.



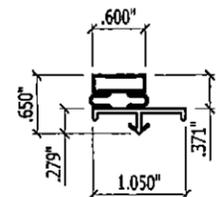
D7 EXTERIOR JAMB EXTRUSION
HALF SCALE 6063-T6 ALUM.



D8 DOOR PAN BREAKER
HALF SCALE 6063-T6 ALUM.



D9 JAMB BREAKER
HALF SCALE RIGID PVC



D10 DOOR GASKET
HALF SCALE FLEXIBLE PVC

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