



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

MIAMI-DADE COUNTY, FLORIDA
 METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1107
 MIAMI, FLORIDA 33130-1563
 (305) 375-2902 FAX (305) 375-2908

www.miamidade.gov/buildingcode

NOTICE OF ACCEPTANCE (NOA)

Metallum Enterprises, Inc.
 7500 NW 68 Street
 Miami, Florida 33166

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: Aluminum Roof Stand Frame Support for A/C Condensing Units.

APPROVAL DOCUMENT: Drawing No. 06-MEE-0002, titled "Aluminum A/C Stand", sheets 1 through 3 of 3, prepared by Engineering Express, dated 03/09/07, signed and sealed by Frank L. Bennardo, 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: None

LABELING: Each stand frame 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 consists of this page 1; evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



NOA No 07-0322.13
 Expiration Date: June 28, 2012
 Approval Date: June 28, 2007
 Page 1

Metallum Enterprises, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS:

1. *Drawing No 06-MEE-0002, titled "Aluminum A/C Stand", sheets 1 through 3 of 3, prepared by Engineering Express, dated 03/09/07, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS:

1. *None.*

C. CALCULATIONS:

1. *Calculation titled "Aluminum A/C Stands Calculations", dated 03/14/2007, sheets 1 through 11 of 11, signed and sealed by Frank L. Bennardo, P.E.*

D. QUALITY ASSURANCE:

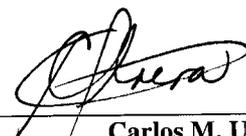
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS:

1. *None.*

F. STATEMENTS:

1. *Review Request Letter issued by Metallum Enterprises, Inc., dated June 09, 2007, signed by Victor Toyos.*
2. *Code Compliance Letter issued by Engineering Express, dated March 16, 2007, signed and sealed by Frank L. Bennardo, P.E.*
3. *No financial Interest Letter issued by Engineering Express, dated March 16, 2007, signed and sealed by Frank L. Bennardo, P.E.*

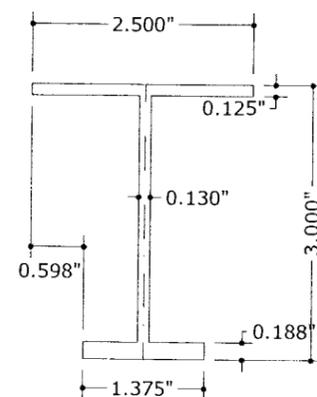


Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 07-0322.13
Expiration Date: June 28, 2012
Approval Date: June 28, 2007

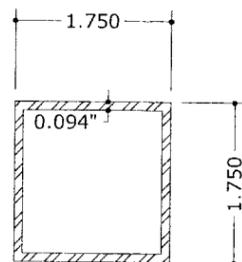
ALUMINUM A/C STAND

FRANK L. BENNARDO, P.E.
PE0046549

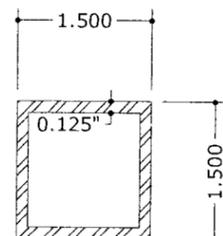
03/16/2007



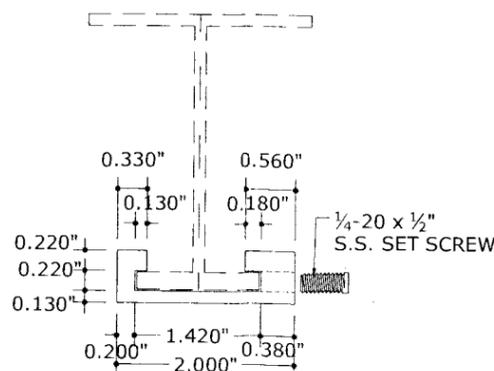
1 RAIL (I-BEAM)
6061-T6 ALUM
6\"=1'-0\"



2 SQUARE TUBING
6061-T6 ALUM
6\"=1'-0\"

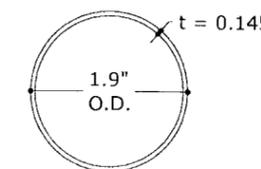


2.1 SQUARE TUBING
6063-T5 ALUM
6\"=1'-0\"

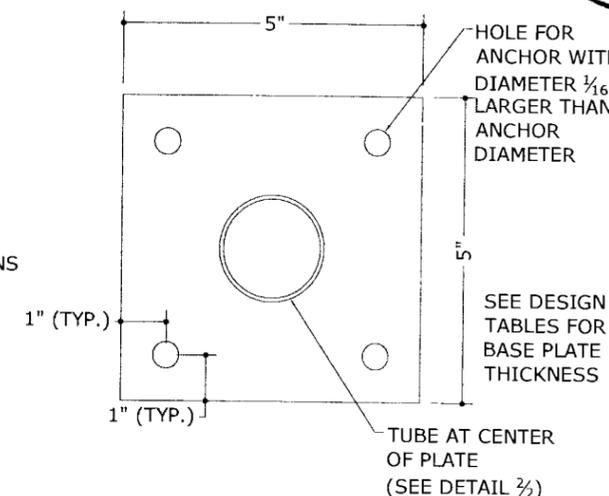


3 C-CHANNEL
6063-T6 ALUM. ALLOY
6\"=1'-0\"

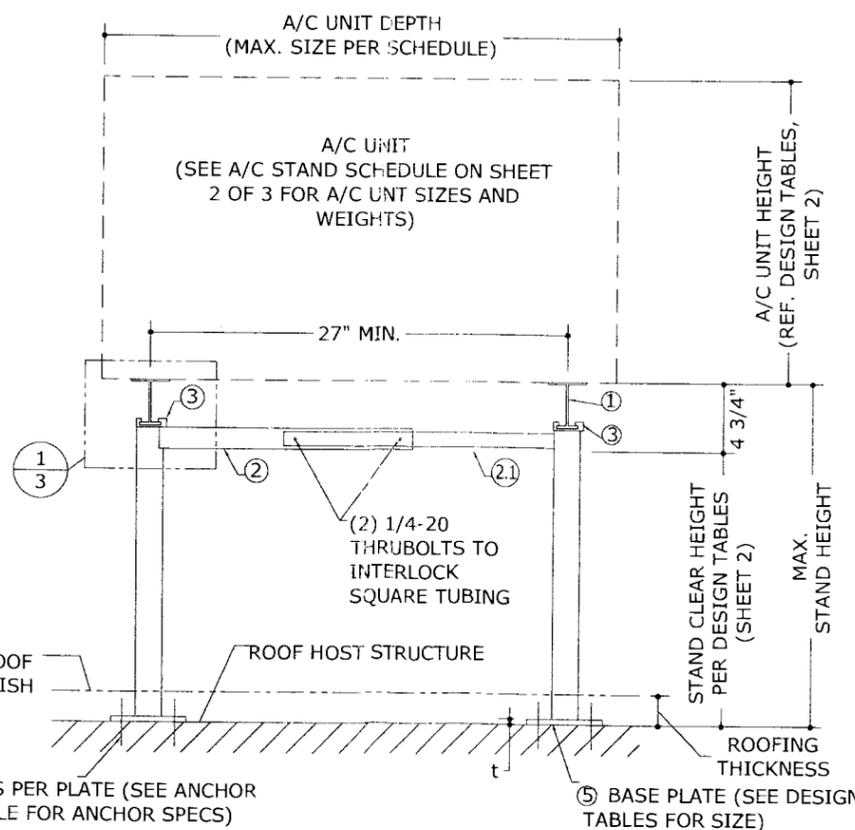
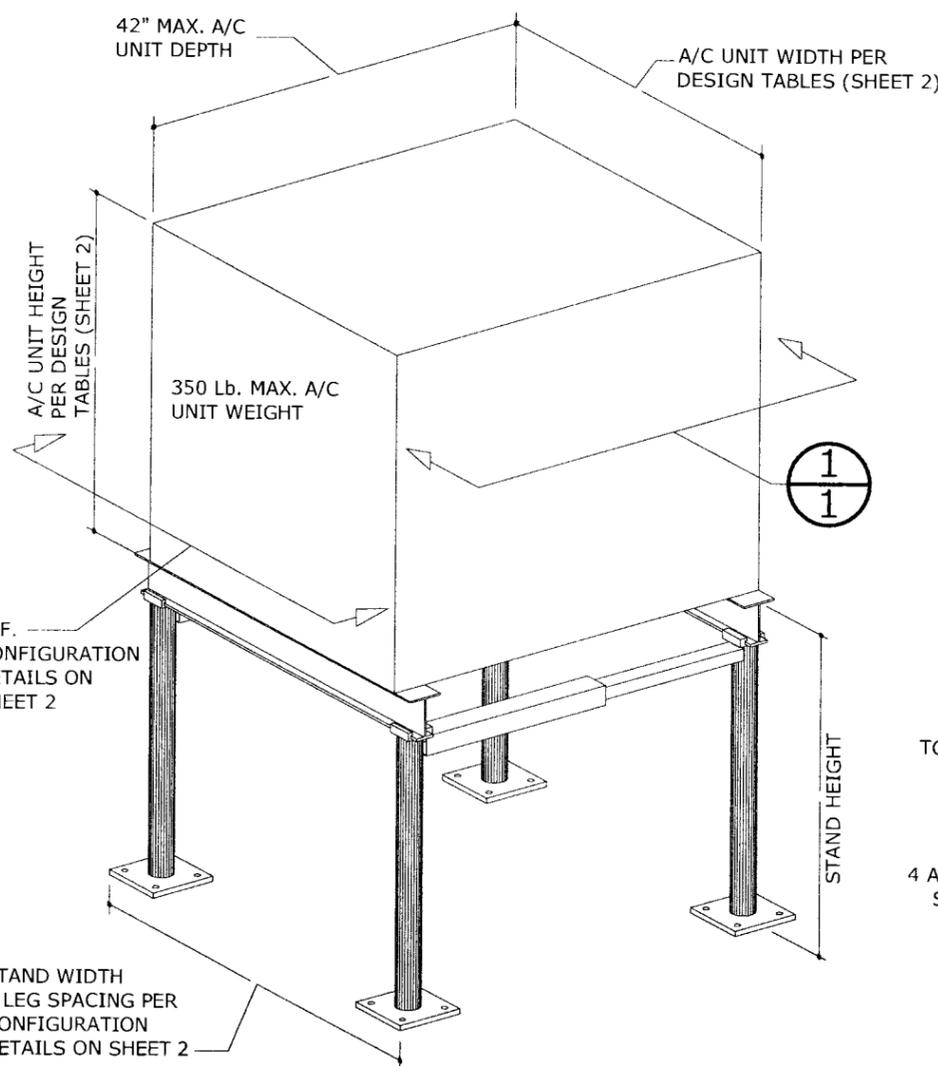
NOTE: REF. FRAME SCHEDULE FOR DIMENSIONS



4 ROUND TUBING
6061-T6 ALUM
6\"=1'-0\"



5 BASE PLATE
6061-T6 ALUM
4\"=1'-0\"



1 FRAME ASSEMBLY ELEVATION
SCALE: 1\"=1'-0\"
END ELEVATION

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE FOR USE WITHIN THE HIGH VELOCITY HURRICANE ZONE.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
4. DIMENSIONS AND WEIGHT OF EACH A/C UNIT SHALL BE LIMITED TO THOSE SHOWN IN DESIGN SCHEDULES AND ILLUSTRATIONS ON SHEET 2.
5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE-SPECIFIC DOCUMENTS AND SUBMIT FOR ONE-TIME NOTICE OF ACCEPTANCE IN CONJUNCTION WITH THIS DOCUMENT.
6. AC STANDS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER FRAME ASSEMBLY CONTAINING THE FOLLOWING:
METALLUM ENTERPRISES
MIAMI-DADE PRODUCT CONTROL APPROVED
7. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
8. ALL EXTRUSIONS SHALL BE OF ALUMINUM ALLOY / TEMPER NOTED HEREIN.
9. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.

Approved as complying with the
Florida Building Code
Date 06/28/2007
NOA# 07-0322-13
Miami Dade Product Control
Division
By *[Signature]*

METALLUM ENTERPRISES

7500 NW 68 STREET
MIAMI, FL 33166
Phn. (305) 884-7076 - Fax. (305) 884-7073

ALUMINUM A/C STAND
HVHZ COMPLIANT
MIAMI-DADE NOTICE OF ACCEPTANCE

DATE	DRWN	CHKD	DATE
03/09/07	KL	CL	

06-MEE-0002

SCALE: 1\"/>

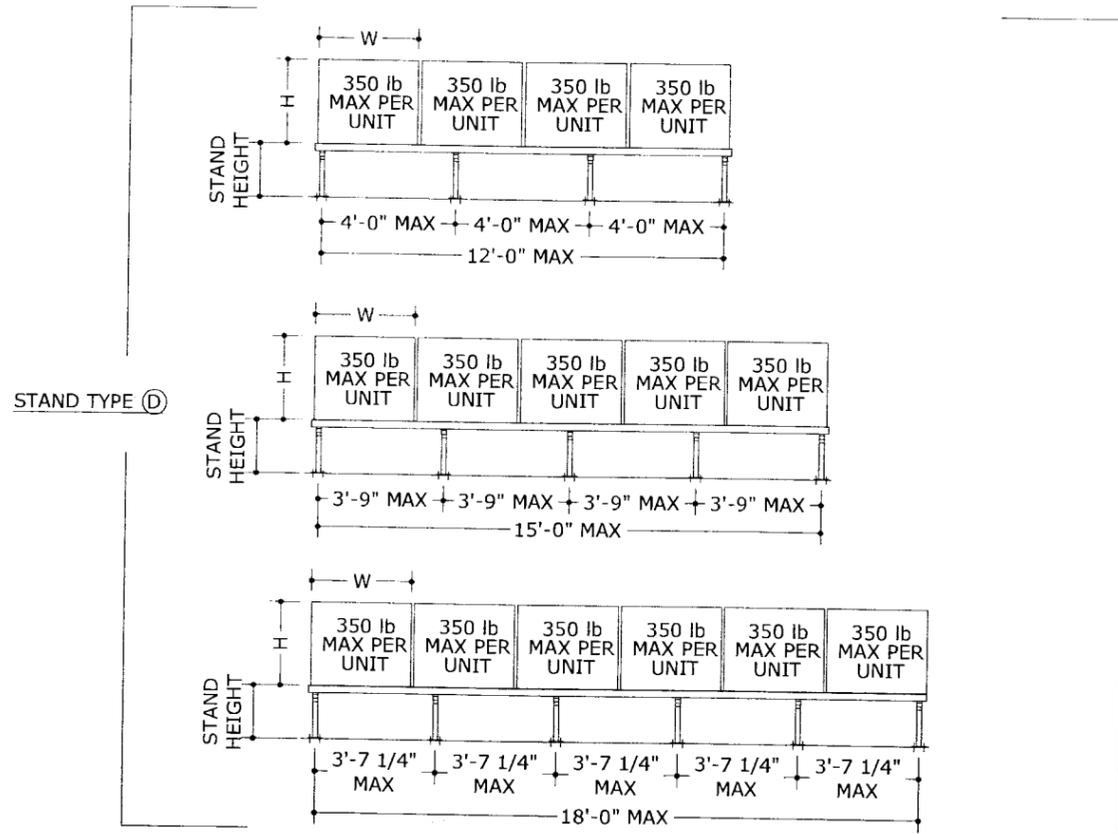
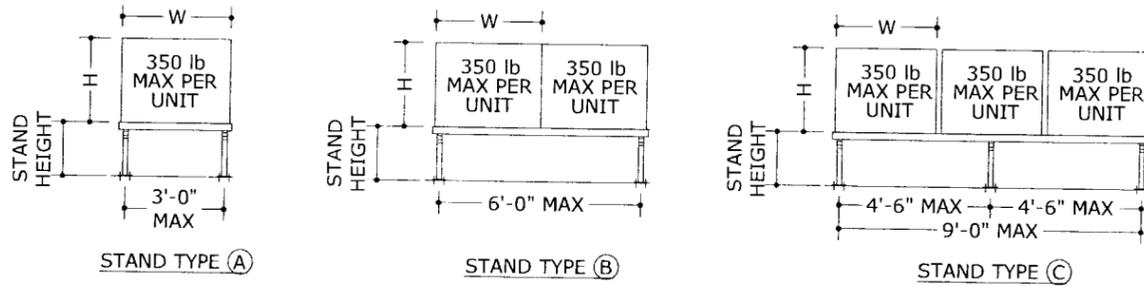
PAGE DESCRIPTION:

1

STAND AND UNIT CONFIGURATIONS WITH ASSOCIATED DESIGN SCHEDULES

DESIGN SCHEDULE 1

UNIT DIMENSIONS		STAND CLEAR HEIGHT	BASE PLATE THICKNESS	ALLOWABLE WIND PRESSURES			
W	H			STAND TYPE (A)	STAND TYPE (B)	STAND TYPE (C)	STAND TYPE (D)
0" - 23"	24"	14"	1/4"	94.0 PSF	55.0 PSF	44.0 PSF	50.0 PSF
			5/16"	94.0 PSF	82.5 PSF	66.0 PSF	75.0 PSF
24"	24"	18"	1/4"	87.2 PSF	43.6 PSF	34.8 PSF	39.6 PSF
			5/16"	87.2 PSF	65.4 PSF	52.2 PSF	59.4 PSF
25" - 35"	24"	18"	1/4"	59.5 PSF	29.8 PSF	---	---
			5/16"	87.2 PSF	44.8 PSF	35.8 PSF	40.5 PSF
36"	24"	24"	---	---	42.6 PSF	---	---
36"	36"		5/16"	42.6 PSF	60.0 PSF	---	---



DESIGN SCHEDULE 2

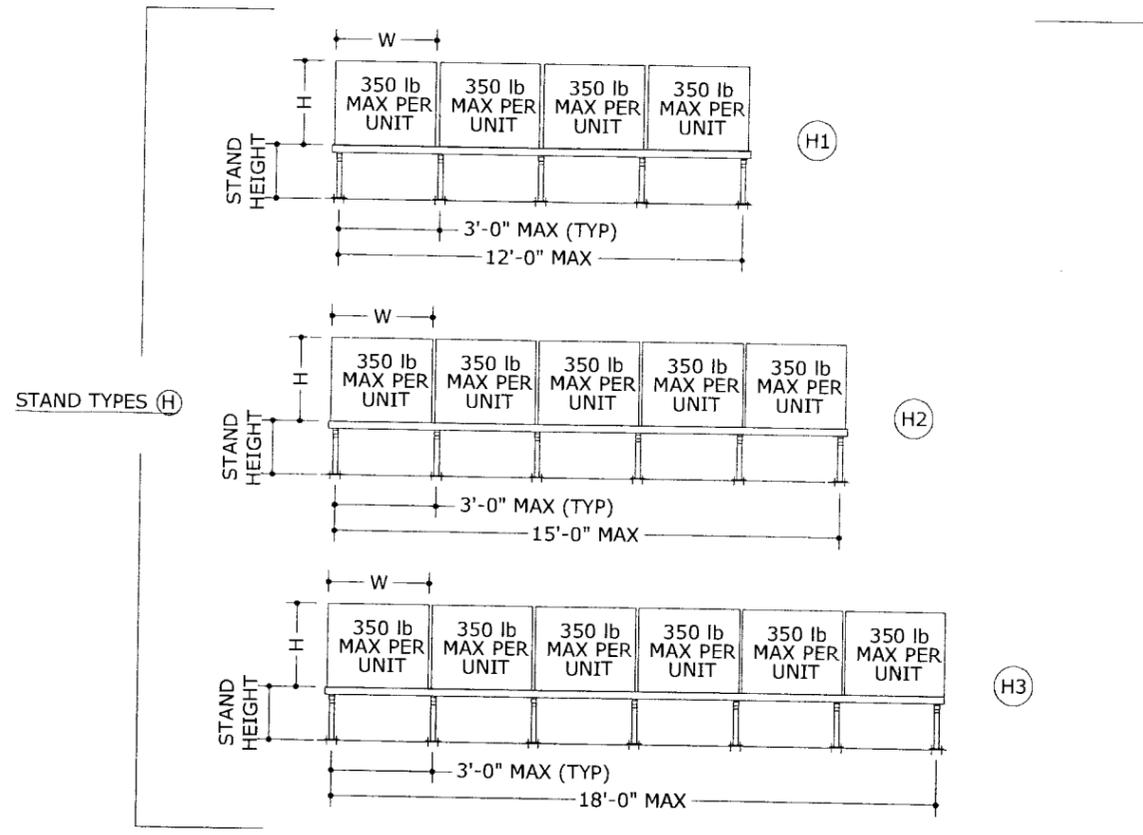
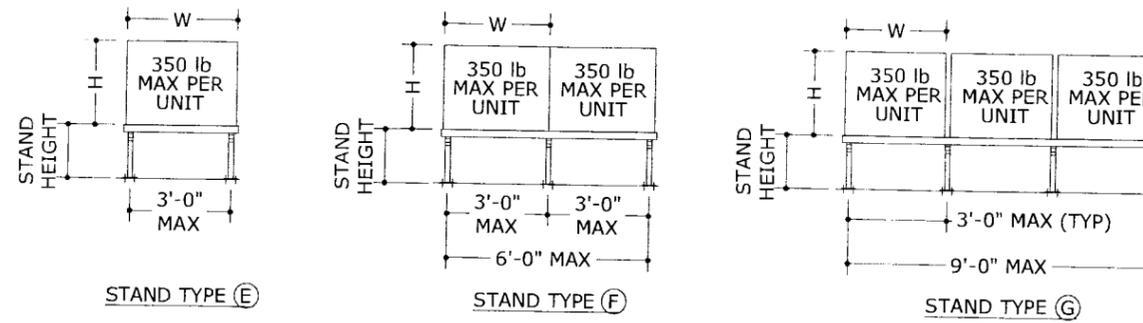
UNIT DIMENSIONS		STAND CLEAR HEIGHT	BASE PLATE THICKNESS	ALLOWABLE WIND PRESSURES	
W	H			STAND TYPE (F)	STAND TYPE (G)
36"	24"	24"	5/16"	88.3 PSF	78.5 PSF
36"	36"			51.3 PSF	45.6 PSF
36"	24"	32"	5/16"	73.8 PSF	65.6 PSF
36"	36"			46.3 PSF	41.2 PSF
42"	42"			33.1 PSF	27.1 PSF

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 Miami-Dade Product Control
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 By: *[Signature]*

DESIGN SCHEDULE 3

UNIT DIMENSIONS		STAND CLEAR HEIGHT	BASE PLATE THICKNESS	ALLOWABLE WIND PRESSURES			
W	H			STAND TYPE (E)	STAND TYPES (H)		
42"	42"	24"	5/16"	44.0 PSF	STAND TYPE (H1)	STAND TYPE (H2)	STAND TYPE (H3)
					32.0 (1)	31.0 (1)	30.0 (1)
					38.5 (2)	35.9 (2)	34.2 (2)
42"	42"	32"	5/16"	44.0 PSF	27.6 (1)	22.0 (1)	21.5 (1)
					33.1 (2)	25.8 (2)	24.5 (2)

(1) NUMBER OF FRAME ASSEMBLIES AS SHOWN BELOW
 (2) ONE ADDITIONAL FRAME ASSEMBLY REQUIRED



FRANK L. BENNARDO, P.E.
 # PE0046549

03/16/2007

ENGINEERING EXPRESS
 160 SW 12th AVENUE, # 106
 DEERFIELD BEACH, FL 33442
 PH: (954) 354-0660 FAX: (954) 354-0443
 WWW.ENGEXP.COM
 CERT. OF AUTH #9985
 A FRANK L. BENNARDO, P.E., INC. INNOVATION

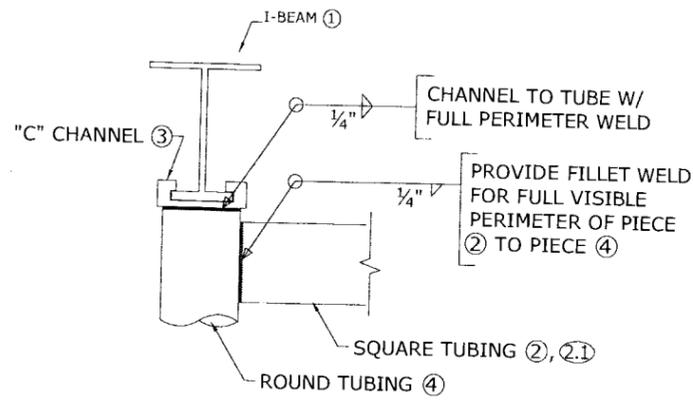
METALLUM ENTERPRISES
 7500 NW 68 STREET
 MIAMI, FL 33166
 Phn. (305) 884-7076 - Fax. (305) 884-7073
 ALUMINUM A/C STAND
 HVHZ COMPLIANT
 MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	CL	03/09/07

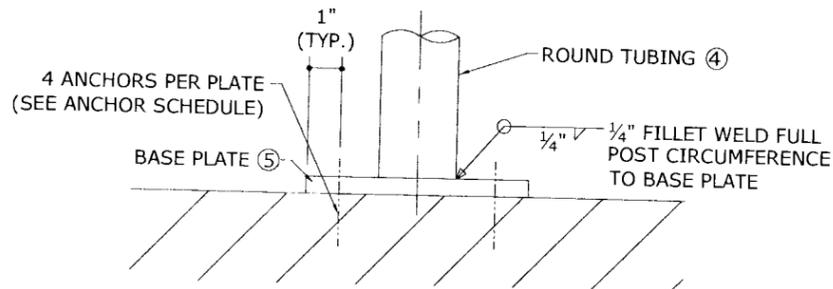
06-MEE-0002
 SCALE: 1/8" = 1'-0"
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 03/16/2007 - 1:30pm keith

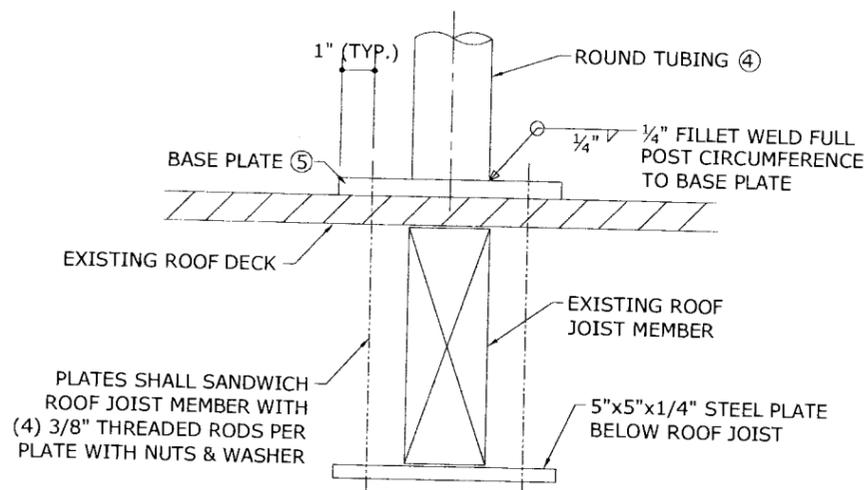
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03/16/2007 - 1:30pm
keith



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



2 **BASE PLATE DETAIL
(REF DESIGN SCHEDULE)**
2 SCALE: 3"=1'-0"



3 **ALT. BASE PLATE
ATTACHMENT DETAIL**
2 SCALE: 3"=1'-0"

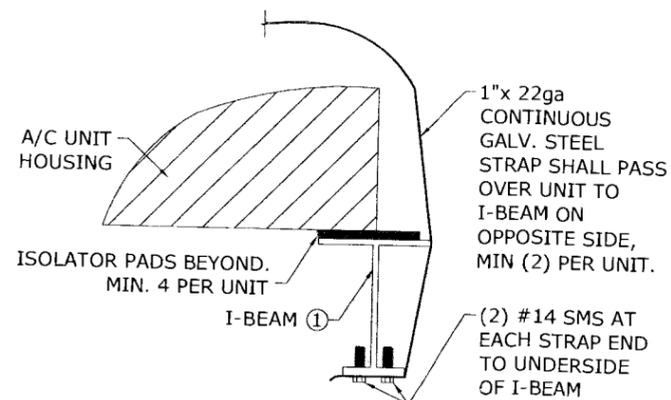
ANCHOR SCHEDULE

ANCHOR TYPE	HOST STRUCTURE	ANCHOR DESCRIPTION
1*	CONCRETE	5/16" POWERS LOK-BOLT SLEEVE ANCHOR WITH 1-1/2" MIN EMBEDMENT TO CONCRETE & 3-3/4" MIN EDGE DISTANCE
2	WOOD	3/8" LAG SCREW WITH 2" MIN THREAD PENETRATION TO WOOD FRAMING & MIN 1" EDGE DISTANCE
3	CONCRETE	3/8" POWERS LOK-BOLT SLEEVE ANCHOR WITH 1-5/8" MIN EMBEDMENT TO CONCRETE & 3" MIN EDGE DISTANCE
4	CONCRETE	1/2" POWERS LOK-BOLT SLEEVE ANCHOR WITH 2-1/4" MIN EMBEDMENT & 3" MIN EDGE DISTANCE
5	WOOD	3/8" S.S. LAG SCREW WITH 3-1/2" MIN THREAD PENETRATION TO WOOD FRAMING & 1" MIN EDGE DISTANCE
6	STEEL	3/8" A307 GALVANIZED BOLT W/ NUT & WASHER TO STRUCTURAL STEEL MEMBERS (1/8" MIN THICKNESS)

* EXCEPT FOR STANDS SHOWN ON DESIGN SCHEDULE 2 & 3.

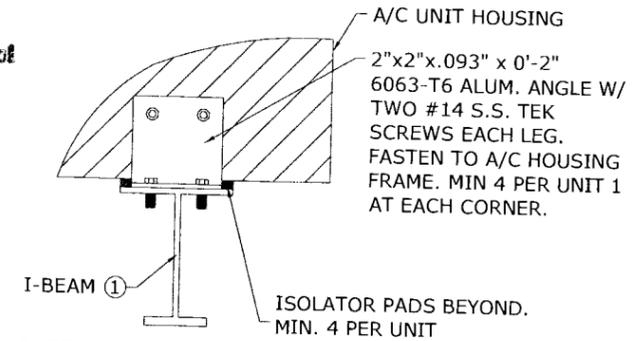
ANCHOR NOTES:

- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE FOR EACH ANCHOR.
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES ROOFING FINISHES.
- WHERE EXISTING STRUCTURE IS WOOD TRUSSES, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD TRUSS MEMBERS, NOT INTO PLYWOOD.

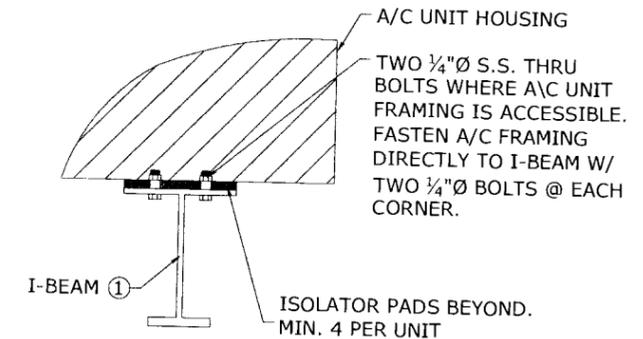


4 **ALT. A/C UNIT TIE-DOWN DETAIL**
2 SCALE: 3"=1'-0"

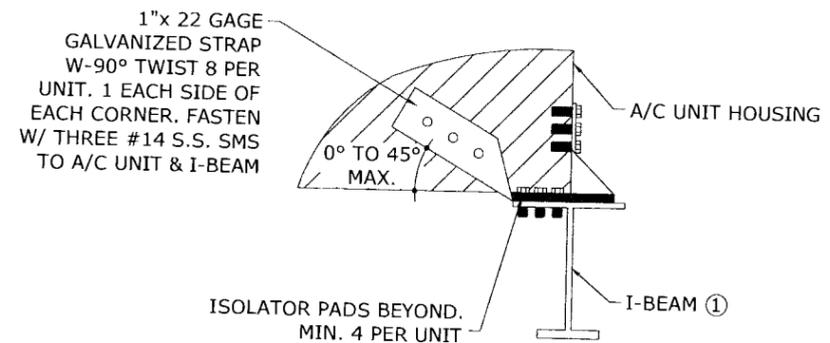
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Miami Data Product Control
Division
By: *[Signature]*



5 **A/C UNIT TIE-DOWN DETAIL**
2 SCALE: 3"=1'-0"



6 **ALT. A/C UNIT TIE-DOWN DETAIL**
2 SCALE: 3"=1'-0"



7 **ALT. A/C UNIT TIE-DOWN DETAIL**
2 SCALE: 3"=1'-0"

FRANK L. BENNARDO, P.E.
PE0046549

03/16/2007

EX ENGINEERING EXPRESS
160 SW 12th AVENUE, #106
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ALUMINUM A/C STAND
HVHZ COMPLIANT
MIAMI-DADE NOTICE OF ACCEPTANCE

DRWN/CHKD	DATE
KL	03/09/07

REMARKS
INIT/ISSUE

06-MEE-0002
SCALE: 01
PAGE DESCRIPTION:
3