



**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](http://www.miamidade.gov)

**NOTICE OF ACCEPTANCE (NOA)**

**Alumistand & Vibra-Damp Corp. of America**  
3350 Burriss Road  
Fort Lauderdale, Florida 33314

**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 Mounted Stand Frame Support for Air Conditioning Units**

**APPROVAL DOCUMENT:** Drawing No. 07-369, titled " Air Conditioning Stand ", sheets 1 through 3 of 3, prepared by Thornton Tomasetti, dated May 02, 2007, last revision #0 dated May 02, 2007, signed and sealed by John W. Knezevich, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration 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 renews NOA # 05-0926.01 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*  
09/06/2007

NOA No. 07-0516.04  
Expiration Date: 09/05/2012  
Approval Date: 09/06/2007  
Page 1

**Alumistand & Vibra-Damp Corp. of America**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #96-0620.04**

**A. DRAWINGS**

Title: Air Conditioning Stand  
Number: 96-122, sheets 1 through 3.  
Signature: V. J. Knezevich, P.E.  
Date: 06/11/96  
Revision Date: 08/05/96 and 08/13/96

**B. CALCULATIONS**

Title: AVCOA A/C Stand Calculations.  
Signature: V. J. Knezevich, P.E.  
Date: 06/11/96

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0623.02**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. MATERIAL CERTIFICATIONS**

1. *None.*

**E. OTHERS**

1. *Letter from AVCOA, signed by Mr. Steven Glinson, dated June 7, 1999, stating that there have been no changes to his N.O.A. 96-0620.04 and he is submitting an application to renew that N.O.A.*

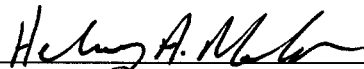
**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #01-0912.07**

**A. DRAWINGS**

1. *Drawing No. 00-339, titled "Air Conditioning Stand", sheets 1 through 3 of 3, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E., dated January 16, 2002, last revision #1 dated January 16, 2002.*

**B. TESTS**

1. *None.*



Helmy A. Makar, P.E., M.S.  
Product Control Examiner  
NOA No. 07-0516.04  
Expiration Date: 09/05/2012  
Approval Date: 09/06/2007

**Alumistand & Vibra-Damp Corp. of America**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS**

1. Calculation titled "Air Conditioning Stands", dated September 07, 2001, sheets 1 through 8, signed and sealed by V. J. Knezevich, P.E. on September 07, 2001.

**D. MATERIAL CERTIFICATIONS**

1. None.

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0401.01**

**A. DRAWINGS**

1. Drawing No. 00-339, titled "Air Conditioning Stand", sheets 1 through 3 of 3, prepared by Knezevich & Associates, Inc., dated September 07, 2001, last revision #2 dated May 20, 2002, signed and sealed by V.J. Knezevich, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Calculation titled "Air Conditioning Stands", dated May 20, 2002, sheets 1 through 5, signed and sealed by V. J. Knezevich, P.E. on May 20, 2002.

**D. MATERIAL CERTIFICATIONS**

1. None.

**5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0719.03**

**A. DRAWINGS**

1. None.

**B. TESTS**

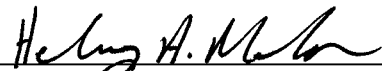
1. None.

**C. CALCULATIONS**

1. None.

**D. MATERIAL CERTIFICATIONS**

1. None.



Helmy A. Makar, P.E., M.S.  
Product Control Examiner  
NOA No. 07-0516.04  
Expiration Date: 09/05/2012  
Approval Date: 09/06/2007

**Alumistand & Vibra-Damp Corp. of America**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #05-0926.01**

**A. DRAWINGS**

1. *Drawing No. 05-378, titled " Air Conditioning Stand ", sheets 1 through 3 of 3, prepared by Thornton-Tomasetti Group, dated September 21, 2005, last revision #0 dated September 21, 2005, signed and sealed by John W. Knezevich, P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *Calculation titled "Aluminum Roof-top Air Condenser Stands", dated July 18, 2005, sheets 1 through 106 of 106, 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.*

**7. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. 07-369, titled " Air Conditioning Stand ", sheets 1 through 3 of 3, prepared by Thornton Tomasetti, dated May 02, 2007, last revision #0 dated May 02, 2007, signed and sealed by John W. Knezevich, P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

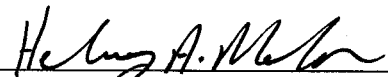
1. *None.*

**D. QUALITY ASSURANCE**

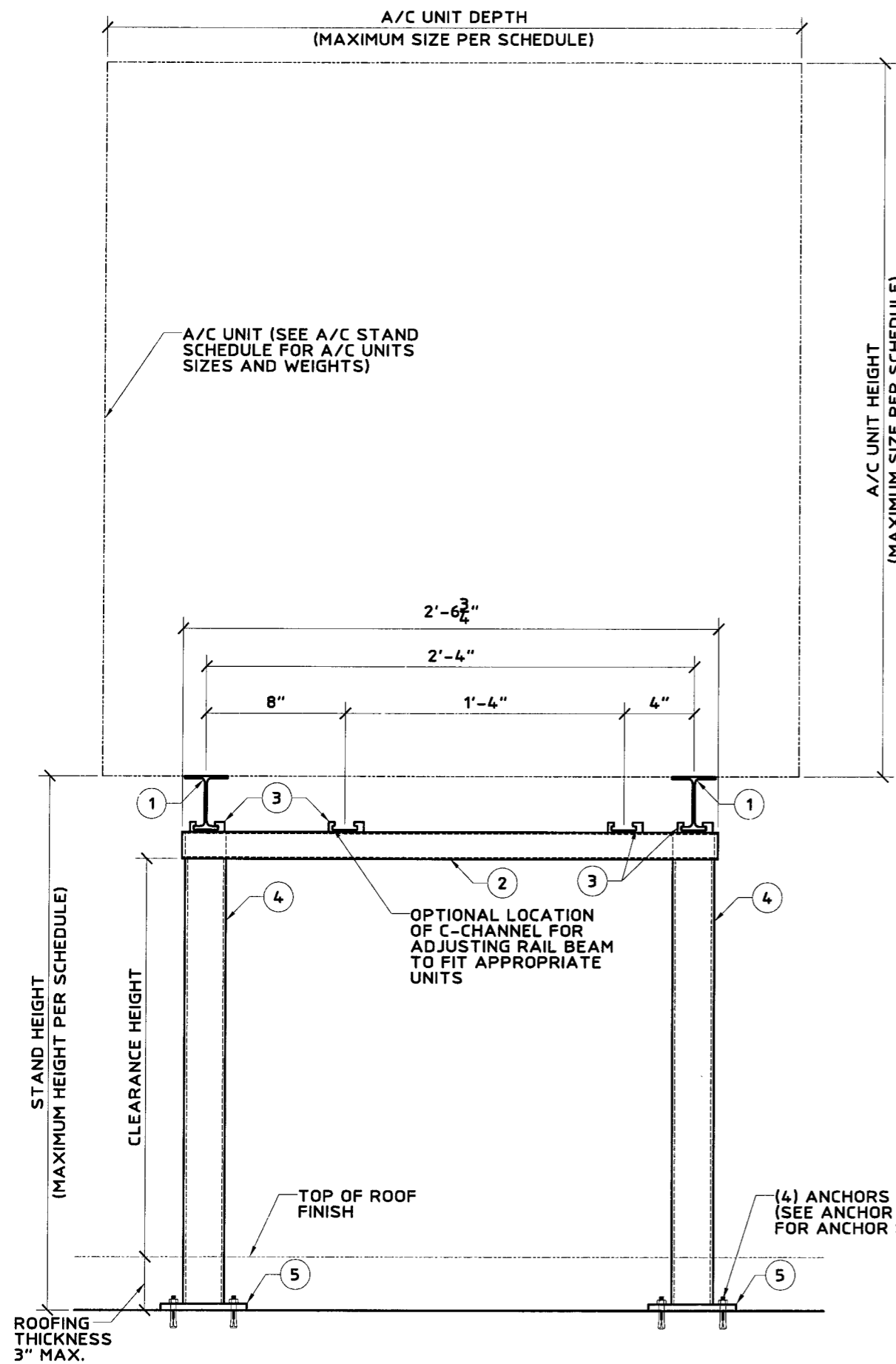
1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

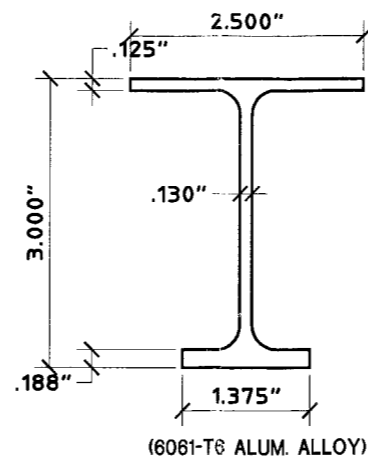
1. *None.*



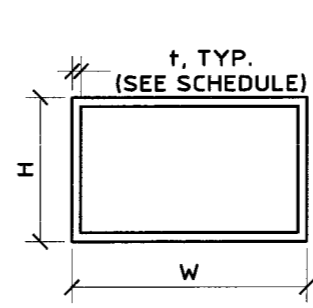
**Helmy A. Makar, P.E., M.S.**  
**Product Control Examiner**  
**NOA No. 07-0516.04**  
**Expiration Date: 09/05/2012**  
**Approval Date: 09/06/2007**



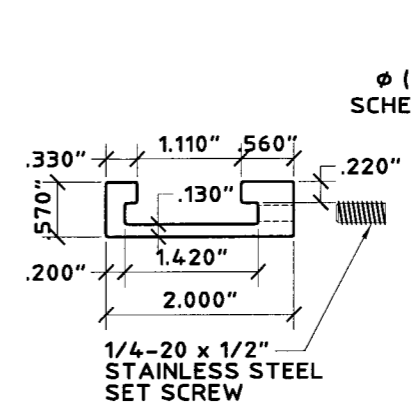
**A** ASSEMBLY ELEVATION (END VIEW)  
SCALE: 1-1/2" = 1'-0"



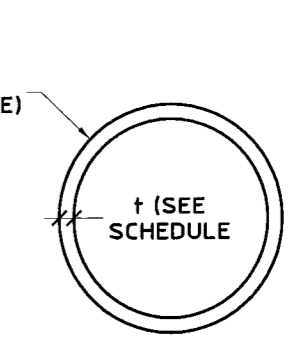
**1** RAIL (I-BEAM)  
SCALE: HALF SIZE



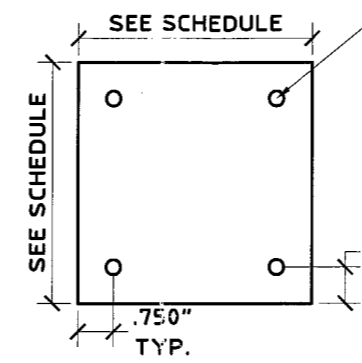
**2** RECTANGULAR TUBING  
SCALE: HALF SIZE



**3** C-CHANNEL  
SCALE: HALF SIZE



**4** ROUND TUBING  
SCALE: HALF SIZE



**5** BASE PLATE  
SCALE: 3" = 1'-0"

HOLE FOR ANCHOR (SIZE 1/16" DIAMETER LARGER THAN ANCHOR DIAMETER)

**GENERAL NOTES:**

- THESE EVALUATION DOCUMENTS REPRESENT A/C STANDS DESIGNED IN ACCORDANCE WITH HIGH VELOCITY HURRICANE ZONE PROVISIONS OF THE FLORIDA BUILDING CODE 2004 INCLUDING THE 2005, 2006 AND 2007 AMENDMENTS.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. HOWEVER, FOR WOOD ANCHORS, A LOAD DURATION FACTOR OF 1.6 HAS BEEN USED.
- WIND LOADS SHALL BE DETERMINED BY AN ARCHITECT OR PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS USING ASCE 7-02, USE TABLE 6-10 WITH A FORCE COEFFICIENT  $C_f$  OF 1.32 AND DIRECTIONALITY FACTOR  $K_d$  OF 0.90. THE SYSTEM IS DESIGNED FOR THE MAX WIND LOADS SHOWN IN THE A/C STAND SCHEDULE.
- THESE PRODUCT EVALUATION DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THESE A/C STANDS.
- USE OF THESE PRODUCT EVALUATION DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- THESE PRODUCT EVALUATION DOCUMENTS ARE INTENDED FOR USE ONLY BY A LICENSED CONTRACTOR, PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AND ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
- THE CONTRACTOR SHALL VERIFY EXISTING STRUCTURE CAN WITHSTAND SUPERIMPOSED LOAD OF A/C STANDS. A FLORIDA REGISTERED ENGINEER SHALL VERIFY CAPACITY OF EXISTING STRUCTURE TO SUPPORT A/C STAND LOADS SHOWN IN FRAME SCHEDULE.
- THE MAXIMUM SIZE AND WEIGHT OF A/C UNIT IS SHOWN IN THE A/C STAND SCHEDULE.
- STANDS SHALL BE INSTALLED WITH A MINIMUM CLEAR HEIGHT IN ACCORDANCE WITH F.B.C. CHAPTER 15, SECTION 1522 AND TABLE 1522.3.
- ALUMINUM DESIGN IS IN ACCORDANCE WITH THE F.B.C. CHAPTER 20 AND THE ALUMINUM ASSOCIATION SPECIFICATIONS FOR ALUMINUM STRUCTURES.
- ALUMINUM ALLOYS SHALL BE AS NOTED ON DRAWINGS. ALL WELDING SHALL BE PERFORMED WITH 5183 FILLER ALLOY, UNLESS OTHERWISE NOTED.
- A/C CONTRACTOR SHALL PROVIDE VIBRATION ISOLATOR PADS BETWEEN A/C UNIT AND STAND.
- WHERE ALTERNATE CONNECTIONS OF A/C UNIT TO FRAME ARE REQUIRED, CONNECTIONS SHALL BE DESIGNED FOR THE ACTUAL WIND LOADS WITH CONSIDERATION OF UPLIFT, OVERTURNING & SLIDING. CONNECTIONS TO RAIL SHALL NOT INDUCE TORSIONAL FORCES.
- CONTRACTOR SHALL VERIFY CONNECTION OF AC UNIT TO FRAME DOES NOT VOID MANUFACTURER'S WARRANTY.

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 07-0516.04  
 Expiration Date 09/05/2012  
 By: *Helmut A. Knezevich*  
 Miami Eng. Product Control  
 Division

**Thornton Tomasetti**  
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 Website: www.ThorntonTomasetti.com  
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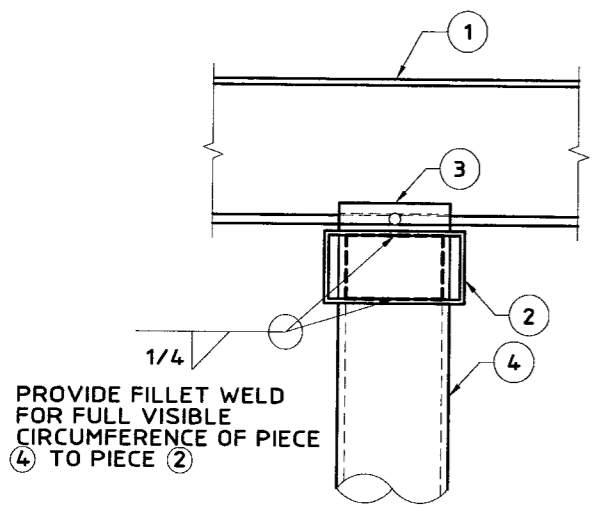
**AIR CONDITIONING STAND**  
 ALUMINUM & VIBRA-DAMP CORPORATION OF AMERICA  
 3350 BURBIS ROAD  
 FT. LAUDERDALE, FL 33314  
 (954) 584-6001  
 (800) 266-7212

J.W. Knezevich  
 Professional Engineer  
 FL License No.: PE 0041961

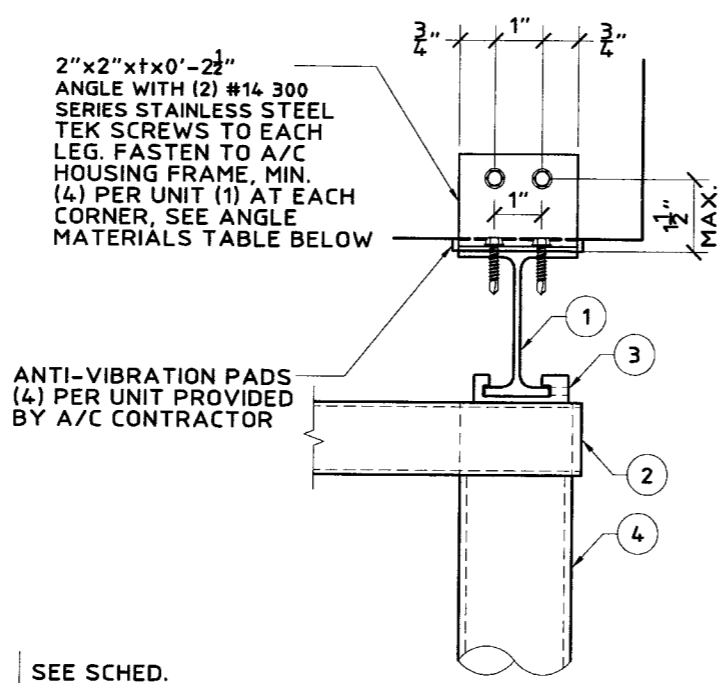
*Jan 23*  
 MAY 02 2007

no	date	by	description
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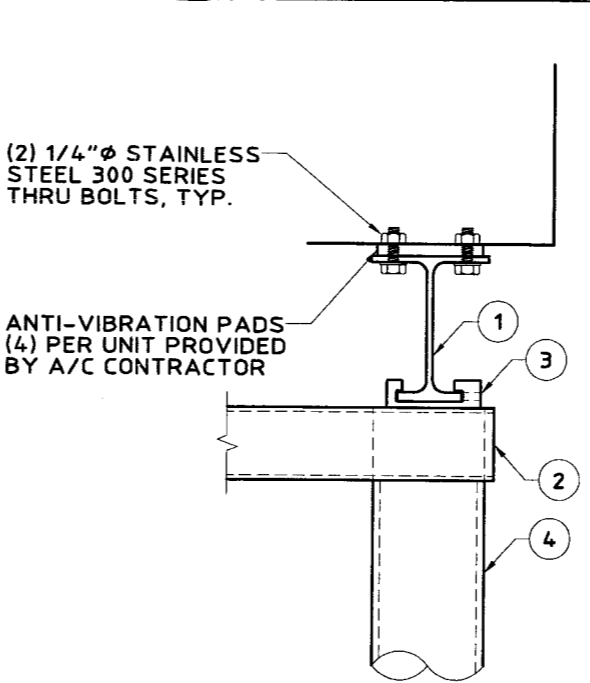
date 05/02/2007  
 scale AS NOTED  
 design by TLF  
 drawing no. 07-369  
 sheet 1 of 3



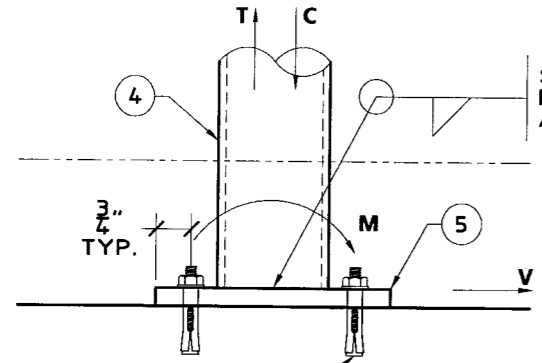
**B** FRAME ASSEMBLY DETAIL  
SCALE: 3" = 1'-0"



**C** A/C UNIT CONNECTION TO FRAMING 1  
SCALE: 3" = 1'-0"



**D** A/C UNIT CONNECTION TO FRAMING 2  
SCALE: 3" = 1'-0"



**F** BASE PLATE REACTION DIAGRAM  
SCALE: 3" = 1'-0"

SEE SCHED. FOR FILLER ALLOY & SIZE

ANGLE MATERIALS			
ASSEMBLY NO.	t (IN.)	ALUM. ALLOY 6063-T6	ASTM A653 GRADE 50 STAINLESS STEEL 303
1,2&3	0.125"	0.100"	0.125"
4,5,6&7	0.1875"	0.130"	0.1875"

ASSEMBLY NO.	AC UNIT HxWxD	FRAME TYPE	POST SIZE		TUBE SIZE WxHxt (inxinxin)	BASE PLATE (BxBxt)	MAX. DESIGN WIND PRESSURE (PSF)		MAX STD HEIGHT (in)	UNIT WT (lbs)	MAX. SUPPORT REACTIONS			
			O.D. (in)	t (in)			BASE PLATE WELD TYPE 4043-1/4	BASE PLATE WELD TYPE 4043-3/8 OR 5183-1/4			T (lbs)	C (lbs)	V (lbs)	M (lb-in)
			1	24x24x24			C	1.75			0.065	2.03x1.4x0.050	4x4x1/4	76
	24x24x24	C	1.75	0.065	2.03x1.4x0.050	4x4x1/4	61	61	24	200	159	335	134	1684
	24x24x24	C	1.75	0.065	2.03x1.4x0.050	4x4x1/4	49	49	30	200	137	313	108	1686
2	24x24x24	A	1.75	0.065	2.03x1.4x0.050	5x5x1/4	78	78	18.5	200	189	365	172	1659
	24x24x24	A	1.75	0.065	2.03x1.4x0.050	5x5x1/4	61	61	24	200	159	335	134	1684
	24x24x24	A	1.75	0.065	2.03x1.4x0.050	5x5x1/4	49	49	30	200	137	313	108	1686
3	24x24x24	B	1.75	0.08	2.03x1.4x0.050	5x5x1/4	86	86	18.5	200	206	382	189	1968
	24x24x24	B	1.75	0.08	2.03x1.4x0.050	5x5x1/4	70	70	24	200	182	358	154	2066
	24x24x24	B	1.75	0.08	2.03x1.4x0.050	5x5x1/4	56	56	30	200	157	333	123	2046
4	36x30x30	D-1	2	0.100	2.5x1.5x0.093	5x5x5/16	57	64	24	300	430	622	240	3058
	36x30x30	D-1	2	0.100	2.5x1.5x0.093	5x5x5/16	46	54	30	300	393	585	203	3210
	36x30x30	D-1	2	0.100	2.5x1.5x0.093	5x5x5/16	39	46	36	300	360	552	173	3266
5	36x30x30	D-2	2	0.125	2.5x1.5x0.093	5x5x3/8	57	80	24	300	555	747	300	3823
	36x30x30	D-2	2	0.125	2.5x1.5x0.093	5x5x3/8	46	65	30	300	488	680	244	3864
	36x30x30	D-2	2	0.125	2.5x1.5x0.093	5x5x3/8	39	55	36	300	445	637	206	3905
6	40x30x30	E	2.375	0.154	3.0x1.5x0.093	5x5x3/8	62	71	24	300	588	788	308	4276
	40x30x30	E	2.375	0.154	3.0x1.5x0.093	5x5x3/8	51	60	30	300	536	736	260	4463
	40x30x30	E	2.375	0.154	3.0x1.5x0.093	5x5x3/8	43	52	36	300	500	700	226	4587
7	40x40x40	E	2.375	0.154	3.0x1.5x0.093	5x5x3/8	61	70	24	300	612	765	311	4317
	40x40x40	E	2.375	0.154	3.0x1.5x0.093	5x5x3/8	50	59	30	300	558	712	262	4493
	40x40x40	E	2.375	0.154	3.0x1.5x0.093	5x5x3/8	42	51	36	300	520	674	226	4607

BASE PLATE SIZE	EXISTING STRUCTURE	ANCHOR SCHEDULE	
		ANCHOR TYPE	REMARKS
4"x4"x1/4" & 5"x5"x1/4"	CONCRETE	(4) 5/16"Ø POWERS LOK BOLTS WITH 1-1/2" MIN. EMBEDMENT IN CONCRETE AND 3-3/4" MIN. EDGE DIST. TO MIN. 3 KSI CONCRETE.	
5"x5"x5/16"	CONCRETE	(4) 3/8"Ø POWERS LOK/BOLT SLEEVE ANCHORS WITH 1-5/8" MIN. EMBEDMENT IN CONCRETE & 4-1/2" MIN. EDGE DIST. TO MIN. 3 KSI CONCRETE.	
5"x5"x3/8"	CONCRETE	(4) 1/2"Ø POWERS LOK/BOLT SLEEVE ANCHORS WITH 2-1/4" MIN. EMBEDMENT IN CONCRETE & 5" MIN. EDGE DIST. TO MIN. 3 KSI CONCRETE.	
4"x4"x1/4" & 5"x5"x1/4"	WOOD	(4) 3/8"Ø STAINLESS STEEL LAG SCREW WITH 2" MIN. EMBEDMENT IN WOOD FRAMING BEYOND PLYWOOD & MIN. 1" EDGE DIST.	
5"x5"x5/16" & 5"x5"x3/8"	STEEL	(4) #12-14 ITW BUILDDEX TEK-SELF DRILLING FASTENERS WITH BONDED WASHER. FASTEN DIRECTLY TO EXIST. STEEL MEMBERS, NOT THRU METAL DECK OR ROOFING.	
4"x4"x1/4" & 5"x5"x1/4"	WOOD	(4) 3/8"Ø STAINLESS STEEL LAG SCREW WITH 3-1/2" MIN. EMBEDMENT IN WOOD FRAMING BEYOND PLYWOOD & MIN. 1" EDGE DIST.	
5"x5"x5/16" & 5"x5"x3/8"	STEEL	(4) 3/8"Ø A307 GALVANIZED BOLTS WITH NUT & WASHER. FASTEN DIRECTLY TO EXIST. STEEL MEMBERS, NOT THRU METAL DECK OR ROOFING.	

**NOTE:**  
A FLORIDA REGISTERED ENGINEER SHALL VERIFY THAT THE EXISTING STRUCTURE IS CAPABLE OF RESISTING THE LOADS IMPOSED SHOWN IN THE FRAME SCHEDULE. DO NOT ATTACH TO STEEL JOISTS WITHOUT COORDINATING WITH JOIST MANUFACTURER OR APPROVAL OF PROFESSIONAL ENGINEER.

**PRODUCT REVIEWED**  
as complying with the Florida Building Code  
Acceptance No. 07-0516.04  
Expiration Date 09/05/2012  
By: *Heber A. Nelson*  
Professional Engineer  
Division

**Thornton Tomasetti**  
330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301  
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Website: www.ThorntonTomasetti.com  
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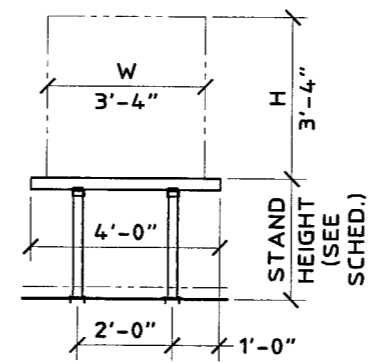
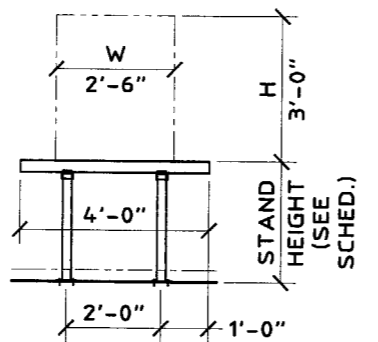
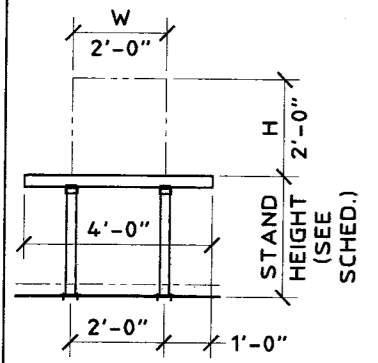
**AIR CONDITIONING STAND**  
ALUMINUM & VIBRATION DAMP CORPORATION OF AMERICA  
3350 BURGESS ROAD FT. LAUDERDALE, FL 33314  
(954) 584-6001 (800) 266-7212

J.W. Knezevich  
Professional Engineer  
FL License No.: PE 0041961

MAX 02 2007

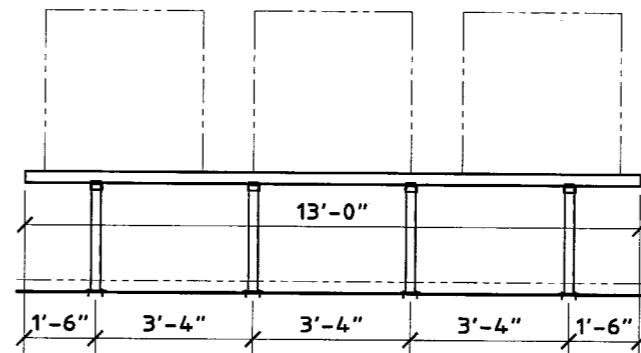
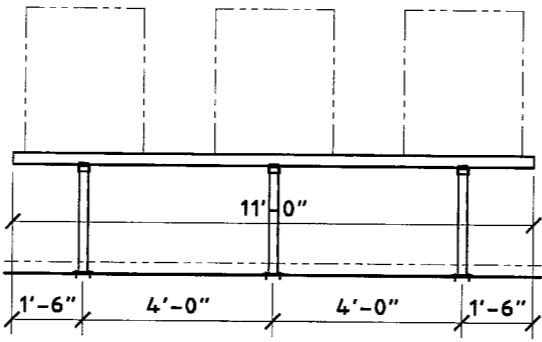
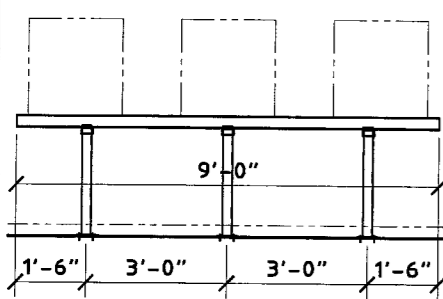
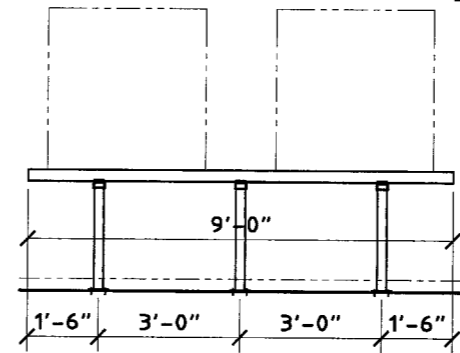
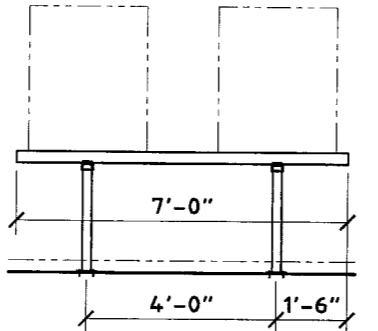
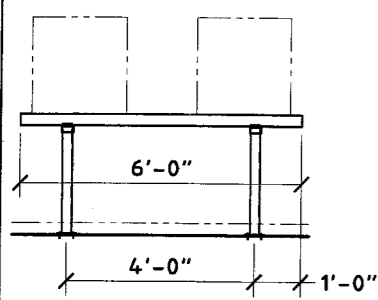
no.	date	by	description
0	05/02/2007	TLF	PREVIOUSLY DRAWING NO. 03-378

date 05/02/2007  
scale AS NOTED  
design by TLF  
checked by VJK  
drawing no. 07-369  
sheet 2 of 3

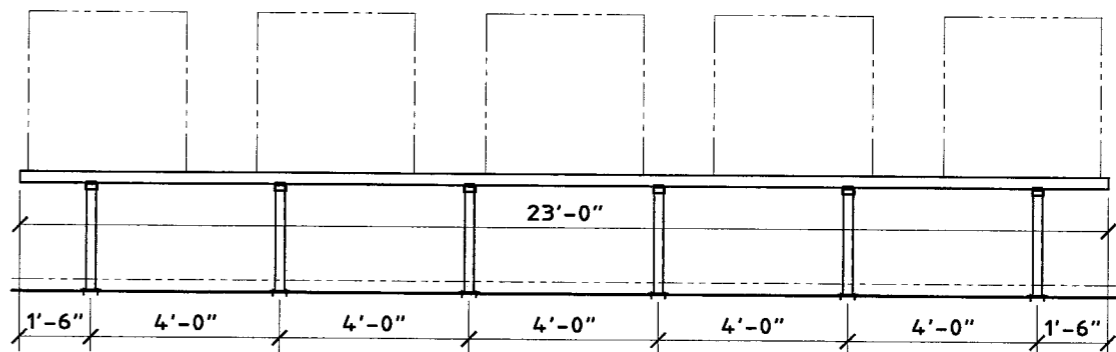
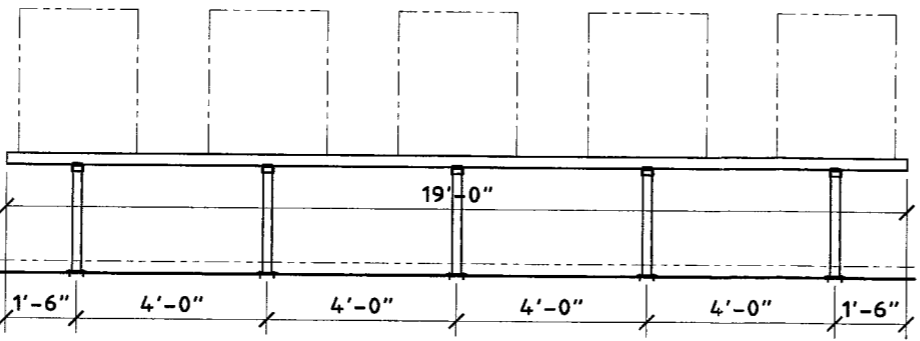
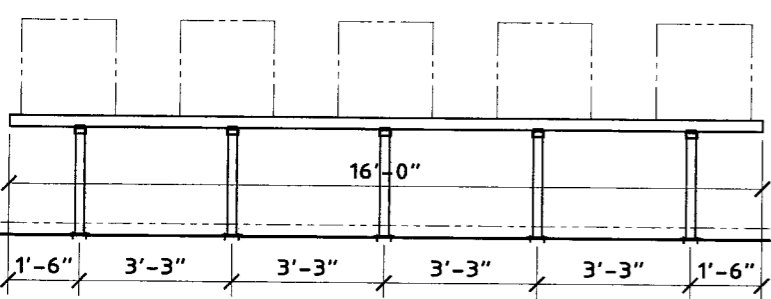
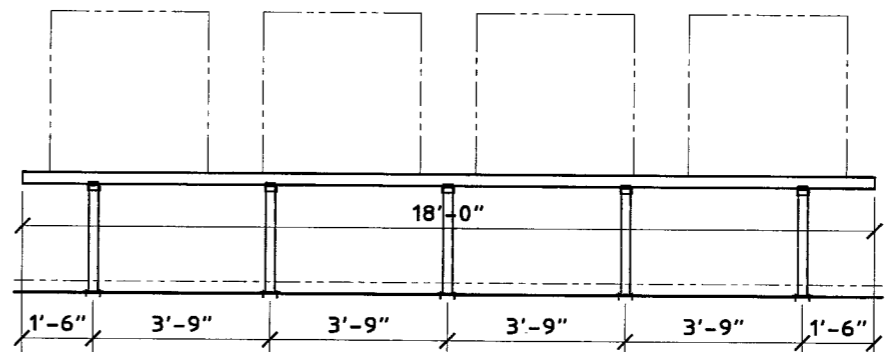
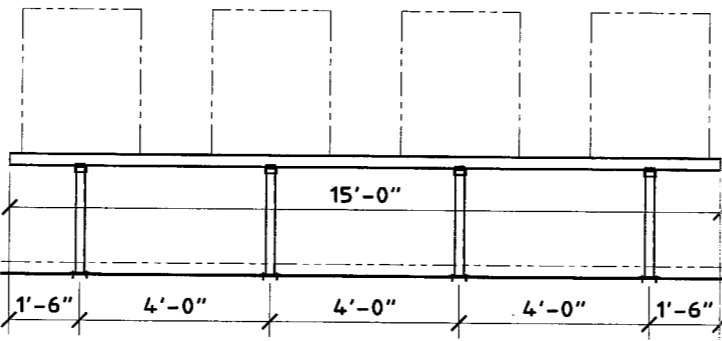
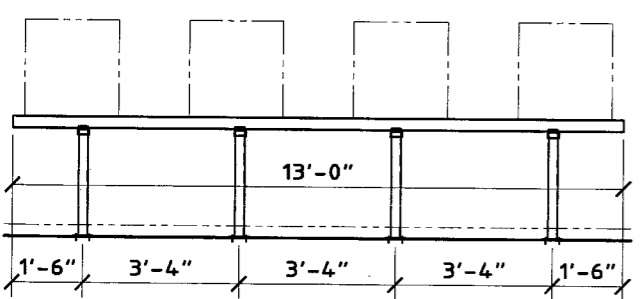


**STAND ASSEMBLY NOTES:**

1. FOR ASSEMBLIES 1, 2 & 3, A/C UNITS SHALL BE A MAXIMUM PROJECTED AREA OF 4.0 SQUARED FEET (24"x24") EACH.
2. FOR ASSEMBLIES 4, 5 & 6, A/C UNITS SHALL BE A MAXIMUM PROJECTED AREA OF 7.5 SQUARED FEET (30"x36") EACH.
3. FOR ASSEMBLY 7, A/C UNITS SHALL BE A MAXIMUM PROJECTED AREA OF 11.1 SQUARED FEET (40"x40") EACH.
4. UNITS SHALL BE EQUALLY SPACED IN THE CONFIGURATIONS SHOWN.
5. PROVIDE 3" ± 2" FROM EDGE OF STAND TO EDGE OF UNIT.



**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 07-0516.04  
 Expiration Date 09/05/2012  
 By Helmut A. Knezevich  
 Miami Dept. Product Control  
 Division



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**AIR CONDITIONING STAND**

ALUMISTAND & VIBRA-DAMP CORPORATION OF AMERICA  
 3350 BURRIS ROAD  
 FT. LAUDERDALE, FL 33314  
 (954) 584-6001  
 (800) 266-7212

J.W. Knezevich  
 Professional Engineer  
 FL License No.: PE 0041961

*[Signature]*  
 MAY 02 2007

no.	date	by	description
0	05/02/2007	TIF	PREVIOUSLY DRAWING NO. 03-378

date 05/02/2007  
 scale AS NOTED  
 design by TLF  
 drawn by MCR  
 checked by VJK  
 drawing no. 07-369  
 sheet 3 of 3

**A** ASSEMBLIES 1, 2 & 3  
SCALE: 1/4" = 1'-0"

**B** ASSEMBLIES 4, 5 & 6  
SCALE: 1/4" = 1'-0"

**C** ASSEMBLY 7  
SCALE: 1/4" = 1'-0"