



**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) 372-6339

**NOTICE OF ACCEPTANCE (NOA)**

[www.maimidade.gov/buildingcode](http://www.maimidade.gov/buildingcode)

**Miami Tech, Inc.**  
**3611 NW 74 Street**  
**Miami, FL 33147**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Aluminum A/C Stand**

**APPROVAL DOCUMENT:** Drawing No. **06-MTI-0002**, titled "Telescopic Cross-Member Aluminum A/C Stand HVHZ Compliant", sheets 1 through 3 of 3, dated 11/20/08, prepared by Engineering Express, 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 unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*[Handwritten Signature]*  
 12/22/08

**NOA No. 08-1202.03**  
**Expiration Date: January 15, 2014**  
**Approval Date: January 15, 2009**  
 Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **06-MTI-0002**, titled "Telescopic Cross-Member Aluminum A/C Stand HVHZ Compliant", sheets 1 through 3 of 3, dated 11/20/08, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Rational analysis and Engineering Design Calculations prepared by Engineering Express, complying with F.B.C 2007, dated 11/20/08, signed and sealed by Frank L. Bennardo, P.E.

**D. QUALITY ASSURANCE**

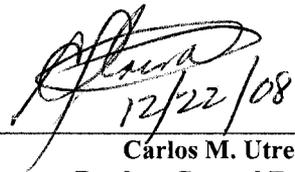
1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

1. None

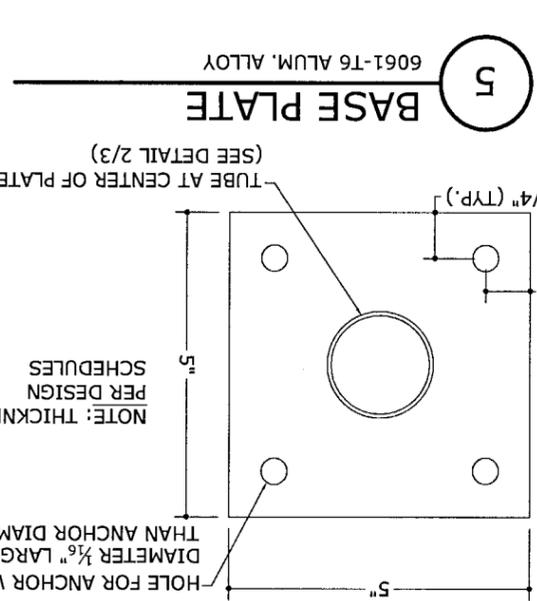
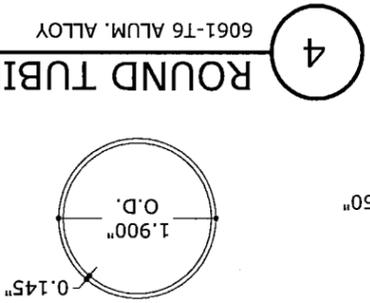
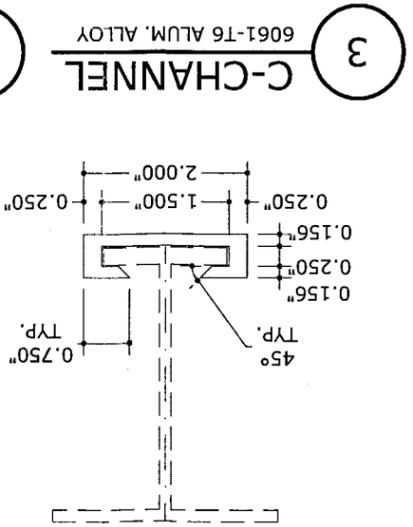
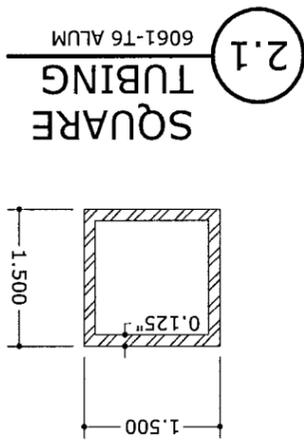
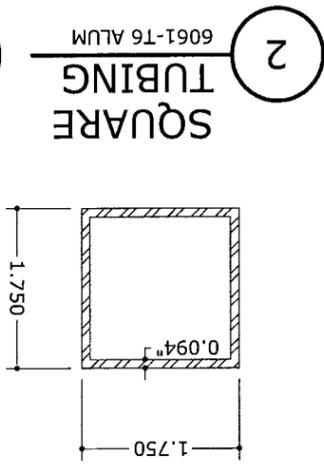
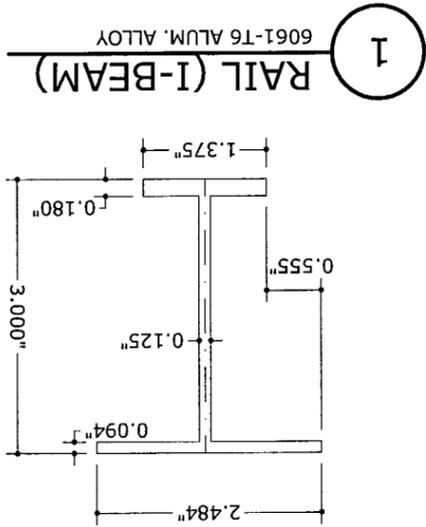
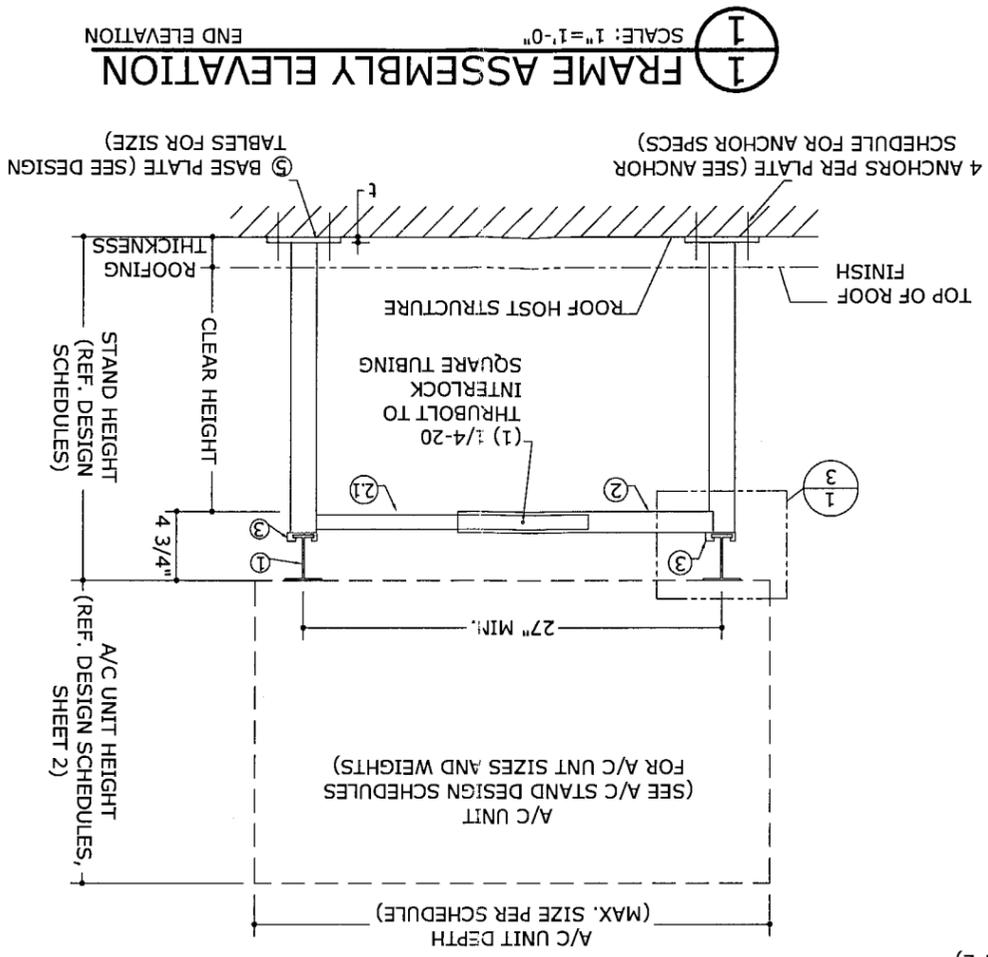
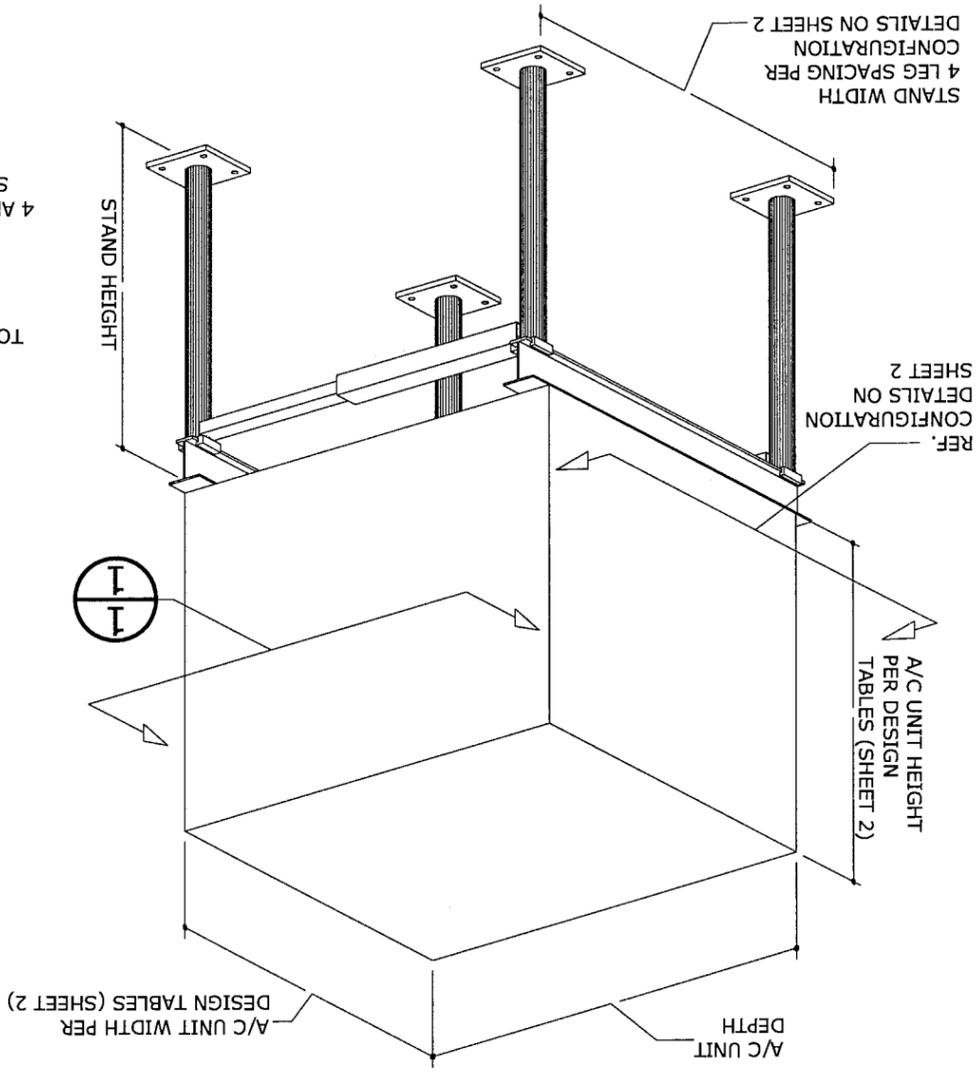
**F. STATEMENTS**

1. Statement letter of conformance issued by Engineering Express, dated 11/19/08, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 11/19/08, signed and sealed by Frank L. Bennardo, P.E.



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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 08-1202.03  
Expiration Date: January 15, 2014  
Approval Date: January 15, 2009



# ALUMINUM A/C STAND WITH TELESCOPIC CROSS-MEMBER

**GENERAL NOTES**

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE, FOR USE WITHIN AND OUTSIDE 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  $C_d=1.6$  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 FOR USE IN CONNECTION WITH THIS DOCUMENT.
6. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
7. ALL EXTRUSIONS SHALL BE ALUMINUM ALLOY & TEMPER AS NOTED HEREIN.
8. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI. ALL 3/16" OR 1/4" POP RIVETS SHALL BE 5056-H32 ALUMINUM ALLOY OR STRONGER.
9. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE.

Approved as complying with the Florida Building Code  
 Date: 01/15/2009  
 MOA: 02-1202.03  
 Miami Tech Product Control  
 Division  
 By: [Signature]

| REMARKS               | DATE     | DRWN | CHKD |
|-----------------------|----------|------|------|
| INIT ISSUE            | 01/17/07 | KL   | CL   |
| REV. TELESCOPIC BOLTS | 06/03/07 | KL   | CL   |
| UPDATE PER 07 FBC     | 09/30/08 | TSS  | CL   |

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SCALE: 04

PAGE DESCRIPTION: 06-MTI-0002

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 TELESCOPIC CROSS-MEMBER ALUMINUM A/C STAND  
 HVHZ COMPLIANT

**EX ENGINEERING**  
 160 SW 12th AVENUE, # 106  
 DEERFIELD BEACH, FL 33442  
 PH: (954) 354-0660 FAX: (954) 354-0443  
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A FRANK L. BENNARDO, P.E., INC. INNOVATION  
 CERT. OF AUTH #9885

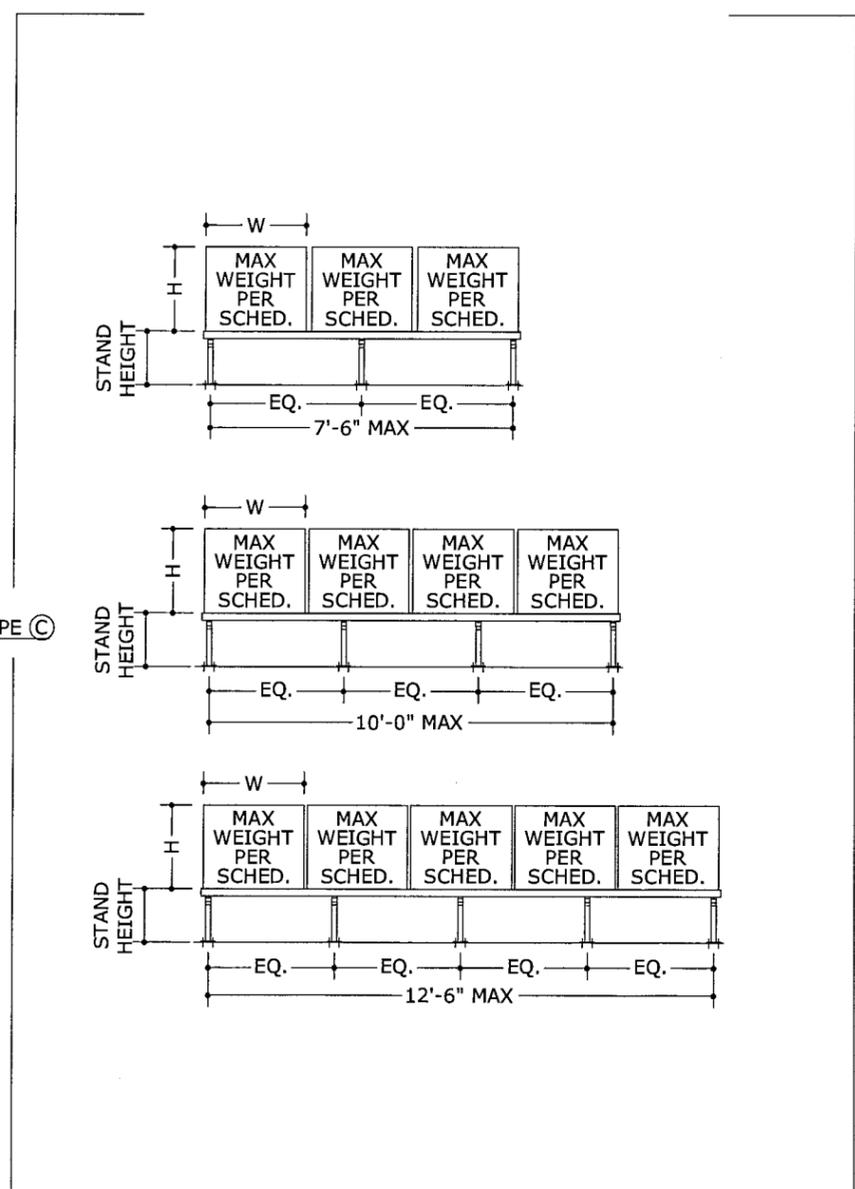
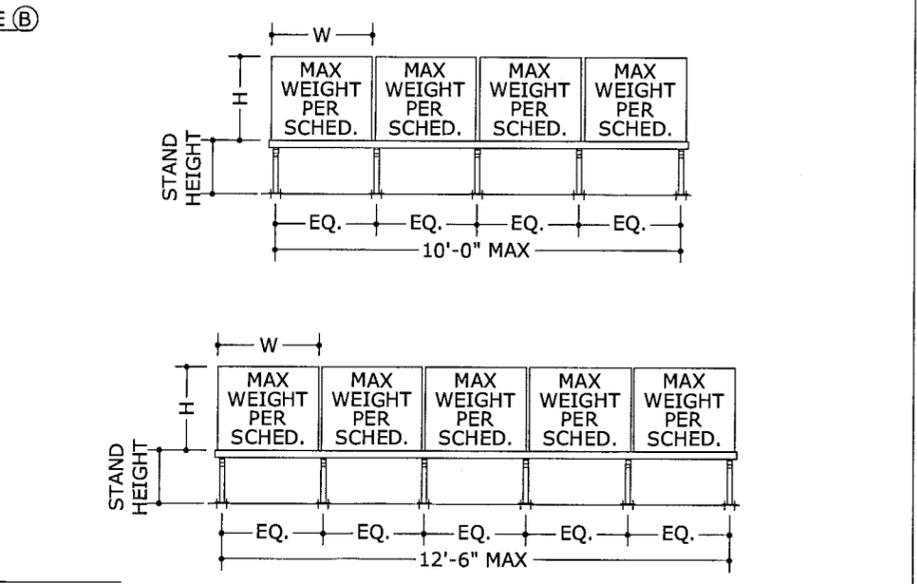
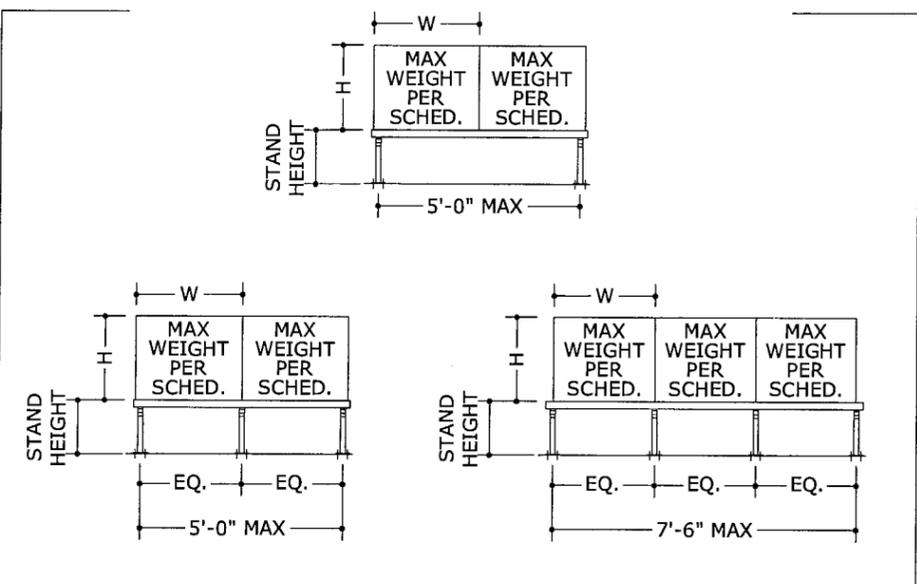
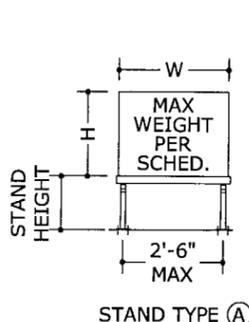
VALID FOR (1) JOB ONLY  
 VALID ONLY WITH RAISED ENGINEER SEAL

# PE0046549  
 11/20/2008

# STAND AND UNIT CONFIGURATIONS WITH ASSOCIATED DESIGN SCHEDULE

## DESIGN SCHEDULE:

| UNIT DIMENSIONS<br>H x W x D | STAND<br>CLEAR<br>HEIGHT | BASE PLATE<br>THICKNESS | ALLOWABLE WIND PRESSURES |                 |                 | MAX UNIT<br>WEIGHT |
|------------------------------|--------------------------|-------------------------|--------------------------|-----------------|-----------------|--------------------|
|                              |                          |                         | STAND<br>TYPE A          | STAND<br>TYPE B | STAND<br>TYPE C |                    |
| 24" x 24" x 24"              | 18.5"                    | 1/4"                    | 200.0 PSF                | 138.5 PSF       | 91.7 PSF        | 200 LBS            |
|                              | 24"                      |                         | 200.0 PSF                | 111.3 PSF       | 73.7 PSF        | 200 LBS            |
|                              | 30"                      |                         | 185.0 PSF                | 91.9 PSF        | 60.8 PSF        | 200 LBS            |
| 30" x 30" x 30"              | 18.5"                    | 1/4"                    | 177.1 PSF                | 87.9 PSF        | 58.2 PSF        | 200 LBS            |
|                              | 24"                      |                         | 142.5 PSF                | 70.7 PSF        | 46.8 PSF        | 200 LBS            |
|                              | 30"                      |                         | 117.8 PSF                | 58.5 PSF        | 38.7 PSF        | 200 LBS            |
| 36" x 30" x 30"              | 18.5"                    | 3/8"                    | 146.2 PSF                | 72.5 PSF        | 47.9 PSF        | 250 LBS            |
|                              | 24"                      |                         | 117.8 PSF                | 58.4 PSF        | 38.6 PSF        | 250 LBS            |
|                              | 30"                      |                         | 97.5 PSF                 | 48.3 PSF        | 31.9 PSF        | 250 LBS            |
| 36" x 36" x 36"              | 18.5"                    | 3/8"                    | 121.3 PSF                | 59.8 PSF        | 39.3 PSF        | 400 LBS            |
|                              | 24"                      |                         | 97.7 PSF                 | 48.2 PSF        | 31.7 PSF        | 400 LBS            |
|                              | 30"                      |                         | 80.9 PSF                 | 39.9 PSF        | 26.2 PSF        | 400 LBS            |



Approved as complying with the  
Florida Building Code  
Date: 01/15/2009  
NOAH 08-1202.03  
Miami Dash Product Control  
Division  
By: *[Signature]*

FRANK L. BENNARDO, P.E.  
# PE0046549

11/20/2008

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MIAMI, FL 33147  
PHONE: (305) 693-7054 FAX: (305) 693-6152  
TELESCOPIC CROSS-MEMBER ALUMINUM A/C STAND  
HVHZ COMPLIANT

| REMARKS               | DRWN | CHKD | DATE     |
|-----------------------|------|------|----------|
| INIT ISSUE            | KL   | CL   | 01/10/07 |
| REV. TELESCOPIC BOLTS | KL   | CL   | 05/03/07 |
| UPDATE PER 07 FBC     | TSB  | CL   | 09/30/08 |

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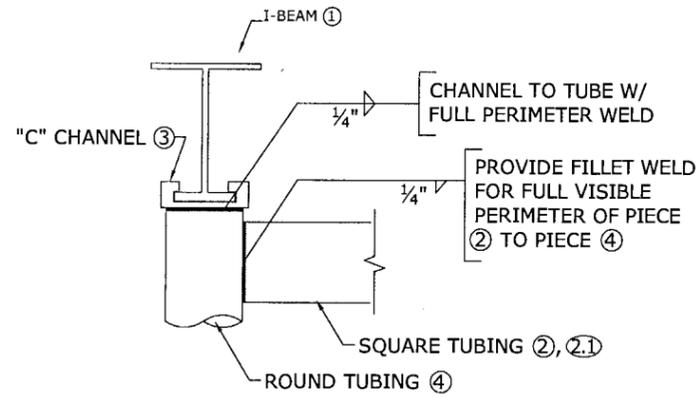
**06-MTI-0002**

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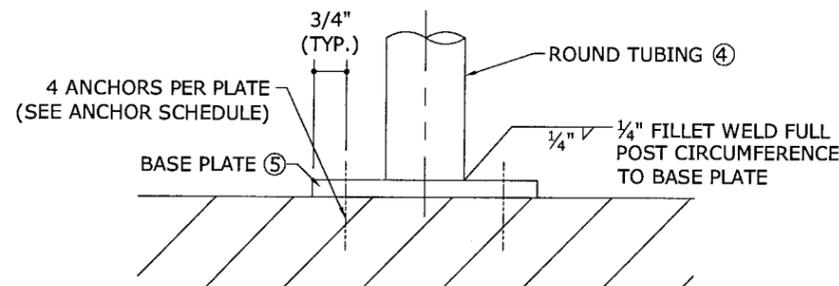
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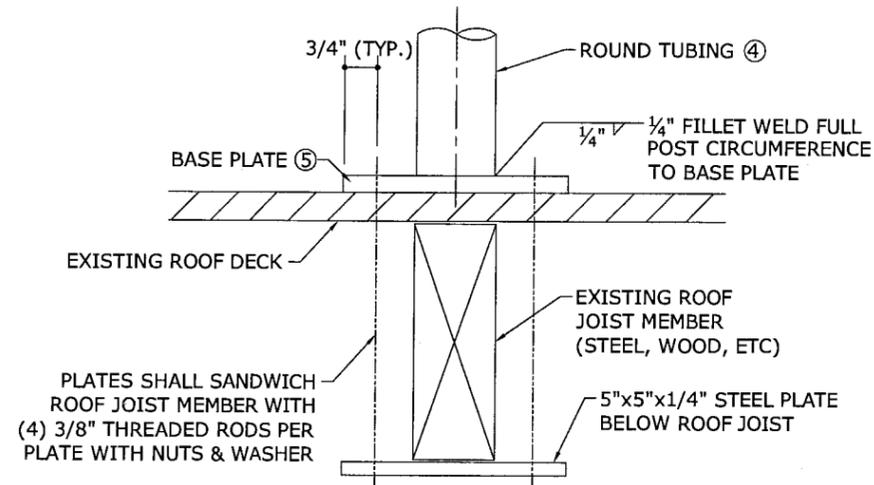
11/20/2008 - 9:40am TroyB F:\01 Project Files\Miami Tech (MTI)\2006\06-MTI-0002 Alum AC Stand, Telescopic Cross-Member (FSA).dwg



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



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



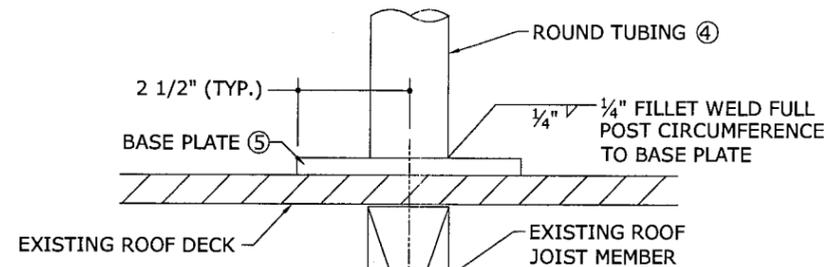
**3** **ALT. BASE PLATE ATTACHMENT DETAIL**  
SCALE: 3"=1'-0"

### ANCHOR SCHEDULE

| ANCHOR TYPE | HOST STRUCTURE | ANCHOR DESCRIPTION   |
|-------------|----------------|--|
| 1           | STEEL          | #12-24 T/5 ITW BUILDDEX TEKS SELF-DRILLING SCREWS W/ BONDED WASHER TO STRUCTURAL STEEL MEMBERS (3/16" MIN THICKNESS) |
| 2           | CONCRETE       | 1/2" POWERS WEDGE-BOLT ANCHOR WITH 3" MIN EMBEDMENT TO 2KSI CONCRETE & 6" MIN EDGE DISTANCE                          |
| 3           | WOOD           | 1/2" S.S. LAG SCREW WITH 3-1/2" MIN THREAD PENETRATION TO WOOD FRAMING & 1" MIN EDGE DISTANCE                        |

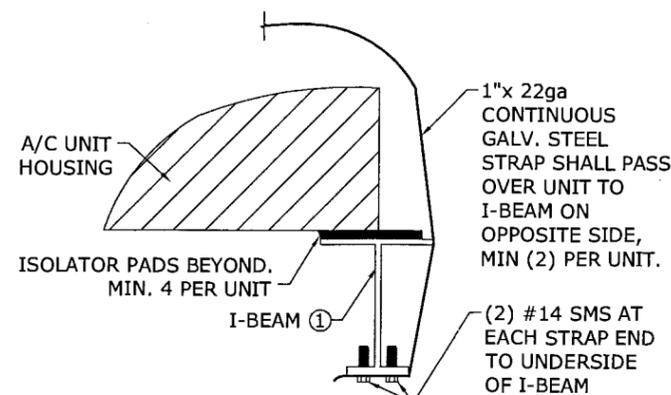
### ANCHOR NOTES:

- 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.

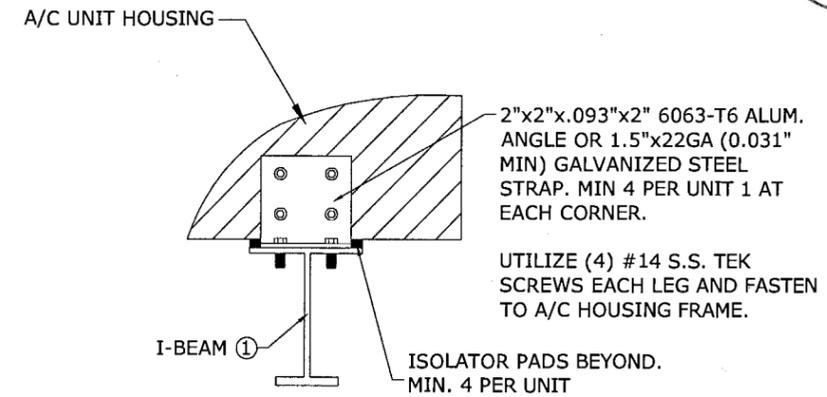


STANDS FOR THIS DETAIL SHALL BE MAX 6'-0" LONG X 27" WIDE WITH (4) 24" HIGH LEGS, FOR USE WITH UNITS UP TO 34"X34"X34" PER UNIT (200LB MAX UNIT WEIGHT), MAX OF (2) UNITS PER STAND, P = ±35PSF MAX

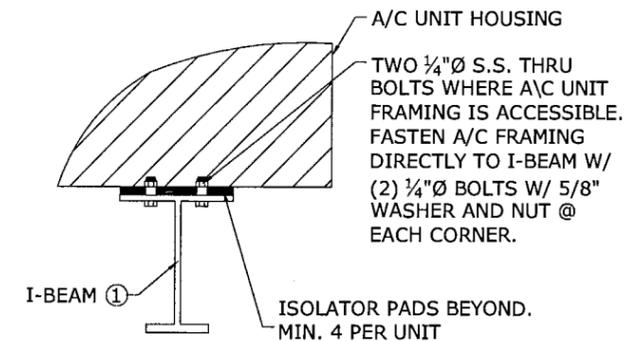
**8** **BASE PLATE TO WOOD ATTACHMENT DETAIL**  
SCALE: 3"=1'-0"



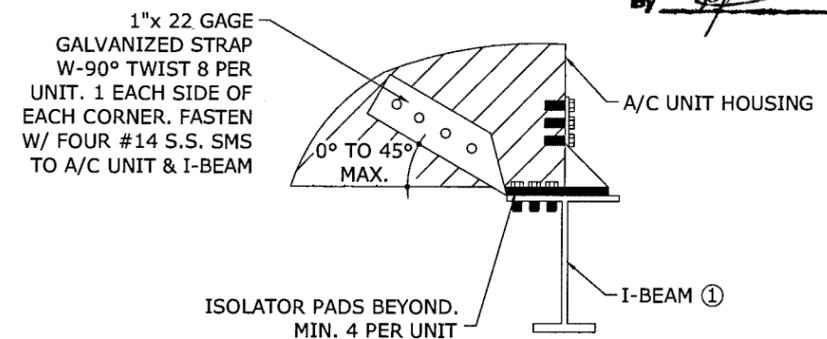
**4** **ALT. A/C UNIT TIE-DOWN DETAIL**  
SCALE: 3"=1'-0"



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



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



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

Approved as complying with the Florida Building Code  
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NOA#: 02-1202-03  
Miami Data Product Control Division  
By: [Signature]

FRANK L. BENNARDO, P.E.  
# PE0046549

11/20/2008

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TELESCOPIC CROSS-MEMBER ALUMINUM A/C STAND  
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06-MTI-0002

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