



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

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

APPROVAL DOCUMENT: Drawing No. 12-MEE-01, titled "Aluminum Stand for Mechanical Units", sheets 1 through 7 of 7, prepared by Engineering Express, dated March 09, 2007, last revision dated January 10, 2014, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

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 revises NOA # 12-0327.02 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
05/08/2014

NOA No. 14-0123.13
Expiration Date: 06/28/2017
Approval Date: 05/08/2014
Page 1

Metallum Enterprises, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0322.13

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.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0720.01

A. DRAWINGS:

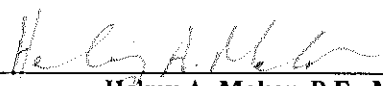
1. *Drawing No. 06-MEE-0002, titled "Aluminum A/C Stand", sheets 1 through 4 of 4, prepared by Engineering Express, dated March 09, 2007, last revision dated February 03, 2009, signed and sealed by Frank L. Bennardo, P.E., on May 13, 2010.*

B. TESTS:

1. *None.*

C. CALCULATIONS:

1. *Calculation titled "Aluminum A/C Stands Calculations", dated 03/29/2010, sheets 1 through 122 of 122, signed and sealed by Frank L. Bennardo, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0123.13
Expiration Date: 06/28/2017
Approval Date: 05/08/2014

Metallum Enterprises, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE:

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

E. MATERIAL CERTIFICATIONS:

1. *None.*

F. STATEMENTS:

1. *Code Compliance Letter with the FBC 2007 issued by Engineering Express, dated March 29, 2010, signed and sealed by Frank L. Bennardo, P.E.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0327.02

A. DRAWINGS:

1. *Drawing No. 12-MEE-01, titled "Aluminum Stand for Mechanical Units", sheets 1 through 7 of 7, prepared by Engineering Express, dated March 09, 2007, last revision dated May 21, 2012, signed & sealed by Frank L. Bennardo, P.E., on June 14, 2012.*

B. TESTS:

1. *None.*

C. CALCULATIONS:

1. *Calculation titled "Aluminum Telescopic Roof Top Stands", dated 06/12/2012, sheets 1 through 104 of 104, signed and sealed by Frank L. Bennardo, P.E.*

D. QUALITY ASSURANCE:

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

E. MATERIAL CERTIFICATIONS:

1. *None.*

F. STATEMENTS:

1. *Code Compliance Letter with the FBC, 2010 Edition, issued by Engineering Express, dated June 14, 2012, signed and sealed by Frank L. Bennardo, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0123.13
Expiration Date: 06/28/2017
Approval Date: 05/08/2014

Metallum Enterprises, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS:

1. *Drawing No. 12-MEE-01, titled "Aluminum Stand for Mechanical Units", sheets 1 through 7 of 7, prepared by Engineering Express, dated March 09, 2007, last revision dated January 10, 2014, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS:

1. *None.*

C. CALCULATIONS:

1. *Calculation titled "Aluminum Telescopic Roof Top Stands", dated 04/10/2014, sheets 1 through 104 of 104, signed and sealed by Frank L. Bennardo, P.E.*

D. QUALITY ASSURANCE:

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

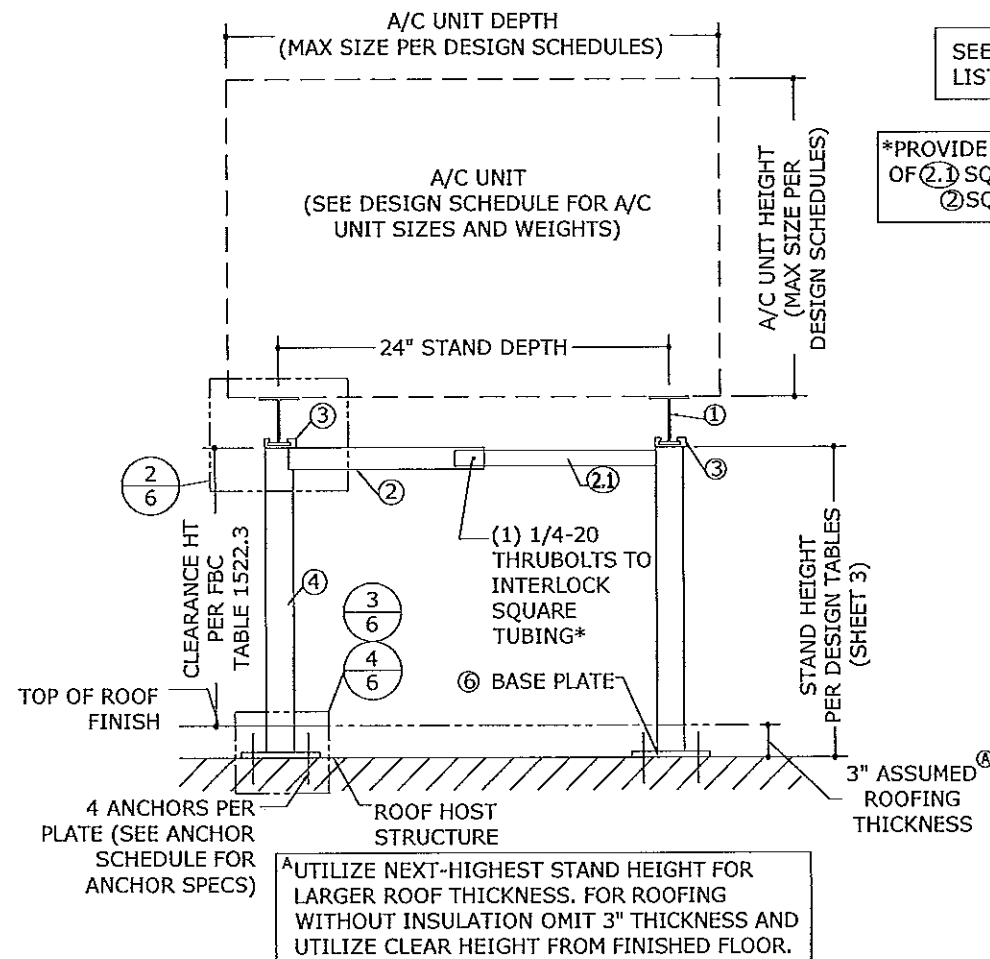
E. MATERIAL CERTIFICATIONS:

1. *None.*

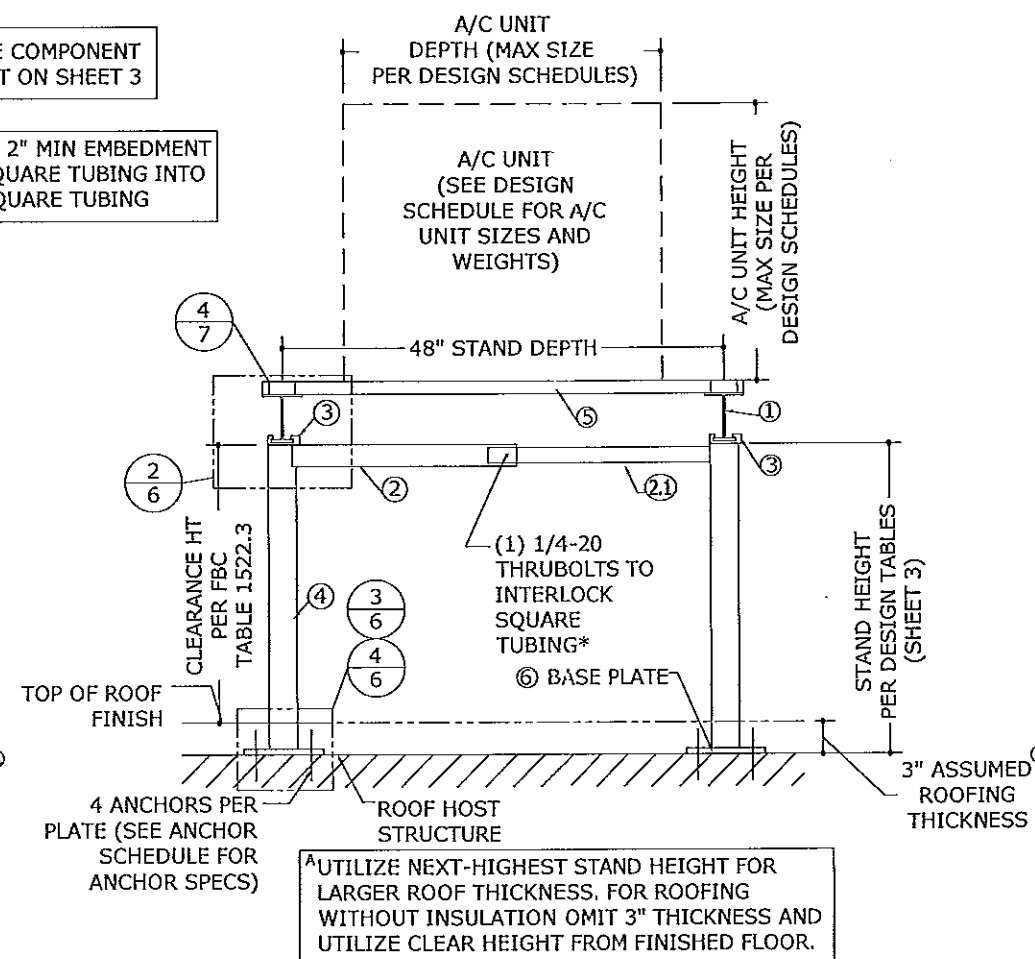


Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0123.13
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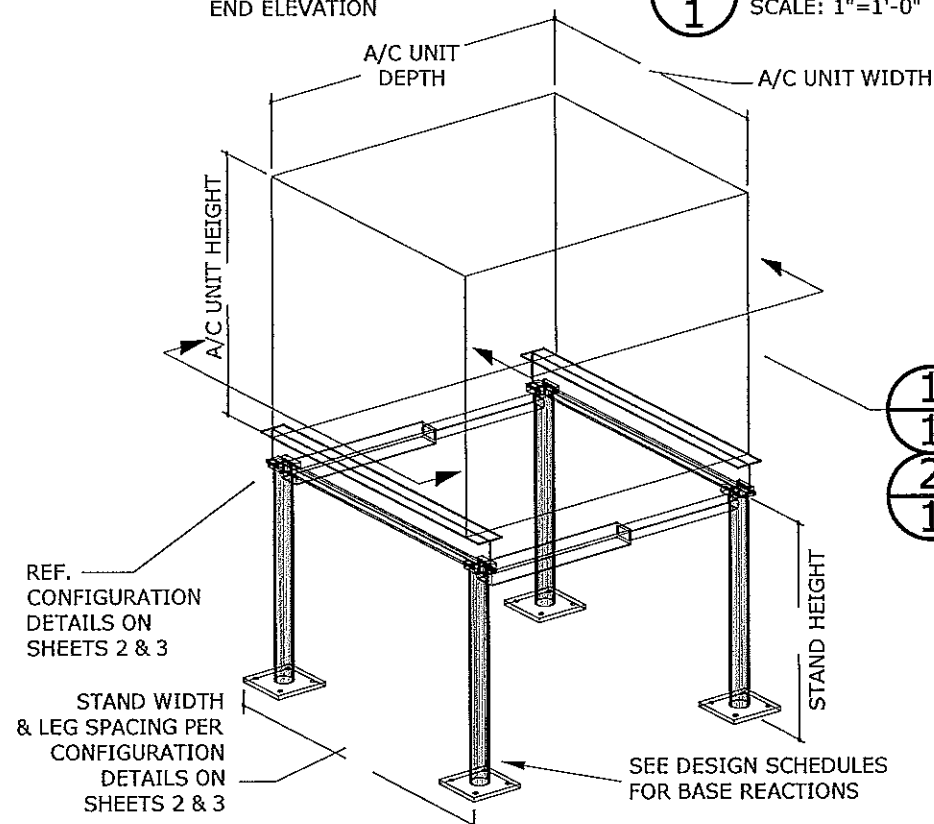
ALUMINUM STANDS FOR MECHANICAL UNITS



24\"/>



48\"/>



UTILIZE NEXT-SMALLEST
STAND DEPTH FOR VALUES IN
BETWEEN EXISTING TABLES

100# MIN./450 # MAX UNIT
WEIGHT AS VERIFIED BY
OTHERS, TYP.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0123.13
Expiration Date 06/28/2017
By *[Signature]*
Miami Dade Product Control

MAXIMUM ALLOWABLE DESIGN PRESSURES:
AS NOTED IN CLEAR SPAN TABLE

DESIGN NOTES:
DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED SEPARATELY ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE USING ASD METHODOLOGY. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-10 AND CHAPTER 16 OF THE 2010 FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE LATERAL AND UPLIFT DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

GENERAL NOTES:

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE.
- MAXIMUM DIMENSIONS AND WEIGHT OF MECHANICAL UNITS SHALL CONFORM TO SPECIFICATIONS STATED HEREIN, MINIMUM 100LB OR MAXIMUM AS LISTED HEREIN.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
- REACTION FORCES LISTED FOR USE WITH HOST STRUCTURE VERIFICATION ARE CALCULATED USING ASD METHODOLOGY. DESIGN PROFESSIONAL OF RECORD TO VERIFY APPLICABILITY AND/OR ADDITIONAL FACTORS FOR USE WITH HOST STRUCTURE VERIFICATION.
- ALL FASTENERS TO BE #12 X 3/4" OR GREATER SAE GRADE 5 CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL (UNLESS NOTED OTHERWISE) AND SHALL COMPLY WITH 5.1.1C, SPECIFICATIONS FOR ALUM. STRUCTURES -SECTION 1, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6061-T6, UNLESS NOTED OTHERWISE.
- ALL EXISTING CONCRETE SUBSTRATE SHALL HAVE MINIMUM f_c COMPRESSIVE STRENGTH OF 3000 PSI AS VERIFIED BY OTHERS.
- ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH 2010 FBC SECTION 2003.8.1.4 WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I-A, TABLE 7.3.1. SUGGESTED WELD FILLER: 5356 ELECTRODES. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN FBC SECTION 2003.2 AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS 1/8" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED AS PRESCRIBED IN FLORIDA BUILDING CODE 2003.8.4.
- ALL CONCRETE COVERINGS TO REACH A MIN. COMPRESSIVE STRENGTH OF 2000 PSI IN 7 DAYS. CONCRETE COVERINGS SHALL BE 4" MIN. THICK.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al, INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- 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 CONJUNCTION WITH THIS DOCUMENT.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- STANDS SHALL BE INSTALLED WITH A MINIMUM CLEAR HEIGHT IN ACCORDANCE WITH FBC 1522.2 & FBC TABLE 1522.3.
- MINI-SPLIT CONDENSING MECHANICAL UNITS (PER SEPARATE CERTIFICATION) SHALL BE ANCHORED PER DETAIL 8/7 AS ILLUSTRATED HEREIN.
- AC STANDS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER FRAME ASSEMBLY CONTAINING THE FOLLOWING:
METALLUM ENTERPRISES, MIAMI FLORIDA
MIAMI-DADE PRODUCT CONTROL APPROVED

FRANK L. BENNARDO, P.E.
LICENSED PROFESSIONAL ENGINEER
No. 145549
01/20/2014
STATE OF FLORIDA

160 SW 12th AVENUE, #1000
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0443
WWW.ENGINEERINGEXPRESS.COM

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
INT ISSUE	KL	CL	03/09/07
REVISE FOR 07 FBC	TSB	CL	02-03-09
REVISE FOR 10 FBC	CSL	TSB	05-21-12
REVISION FOR I-TEAM	CSL	TSB	01-10-14

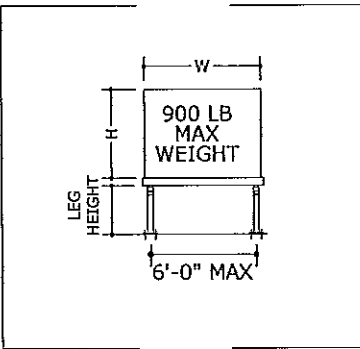
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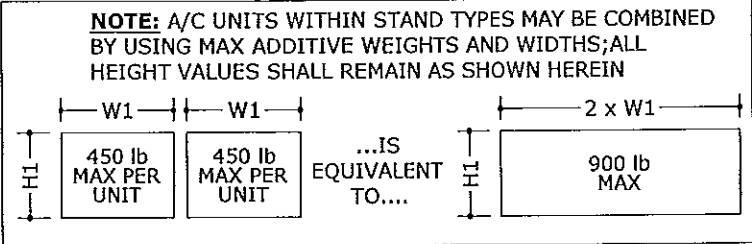
12-MEE-01
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PAGE DESCRIPTION:
OF 7
1

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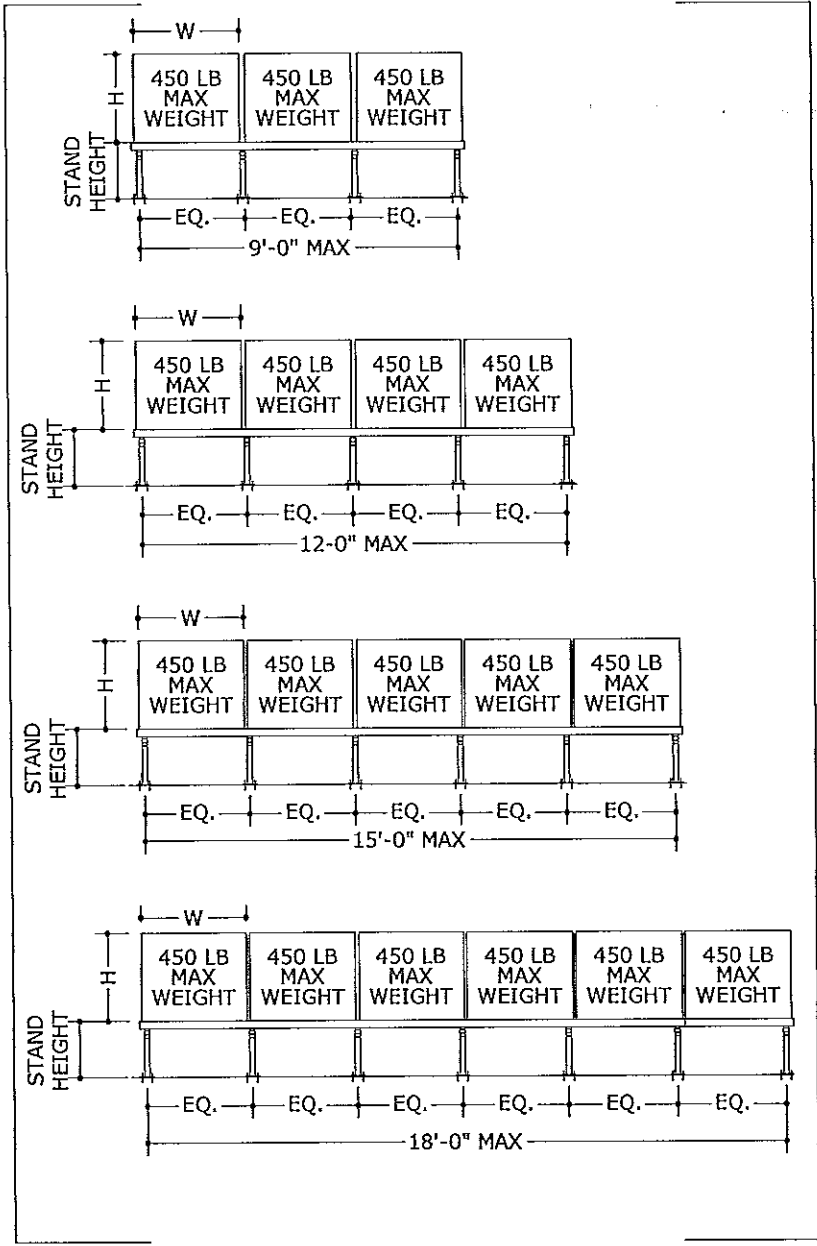
STAND/UNIT CONFIGURATIONS



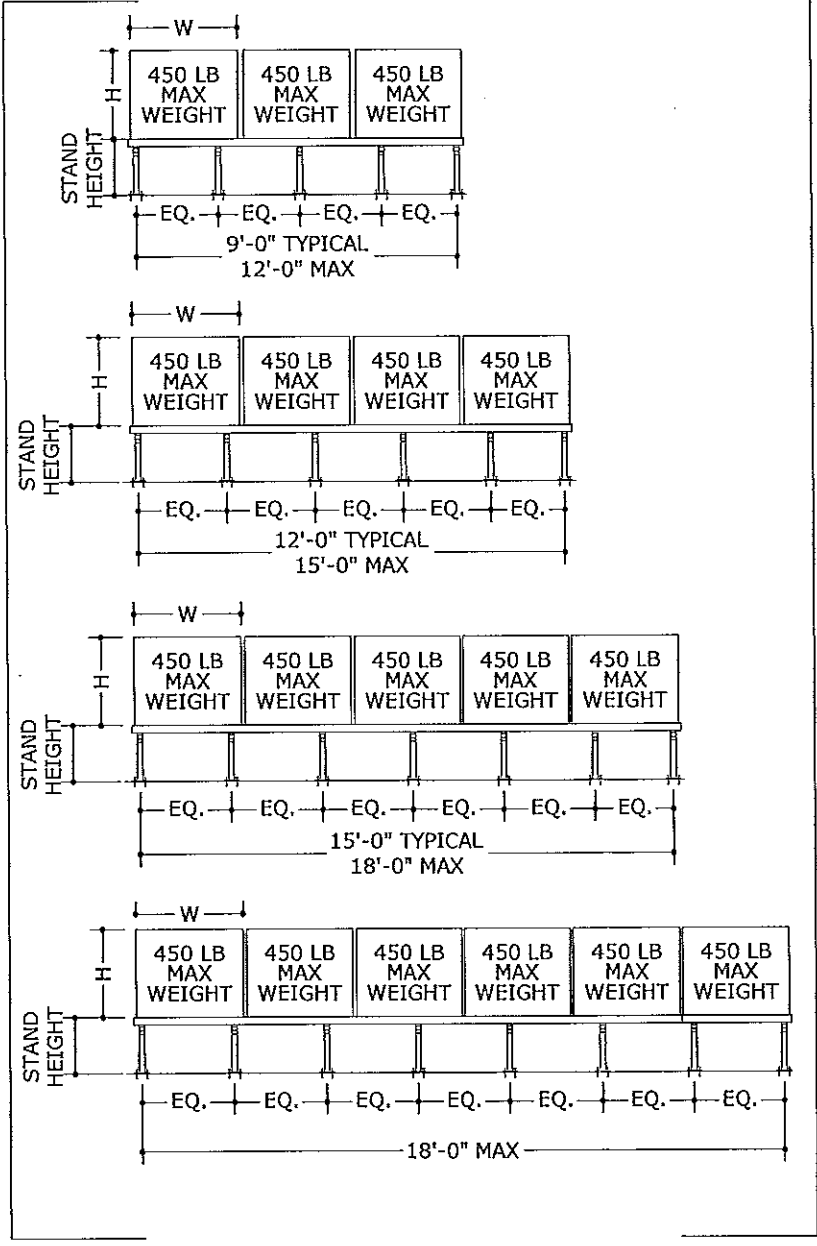
NOTE: USE ANY COMBINATION OF UNITS TO FIT STAND PER MANUFACTURER'S REQUIREMENTS. THE NUMBER OF UNITS MAY BE LESS THAN SHOWN, BUT MAY NOT EXCEED CONFIGURATION LIMITS AS SHOWN. WHEN USING MULTIPLE SIZES ON ONE STAND, UTILIZE MAXIMUM UNIT SIZE TO DETERMINE ALLOWABLE DESIGN FROM DESIGN TABLES.



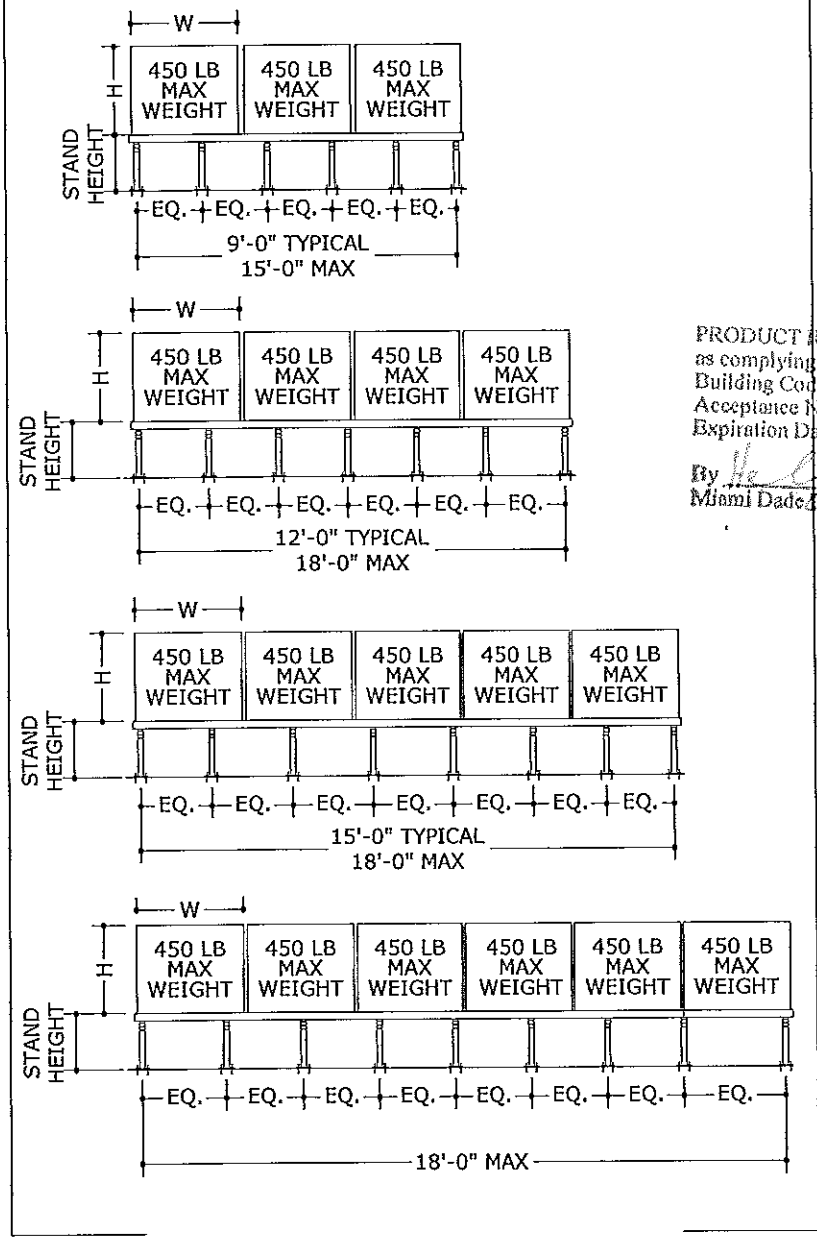
A STAND CONFIGURATION A



B STAND CONFIGURATION B



B1 STAND CONFIGURATION B1



B2 STAND CONFIGURATION B2

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0123.13
Expiration Date 06/28/2017
By: [Signature]
Miami Dade Product Control

FRANK L. BENNARDO, P.E.
LICENSE
No. 46549
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

01/20/2014

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 #9885
A FRANK L BENNARDO, P.E., INC. INNOVATION

METALLUM ENTERPRISES
7500 NW 68 STREET
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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
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12-MEE-01

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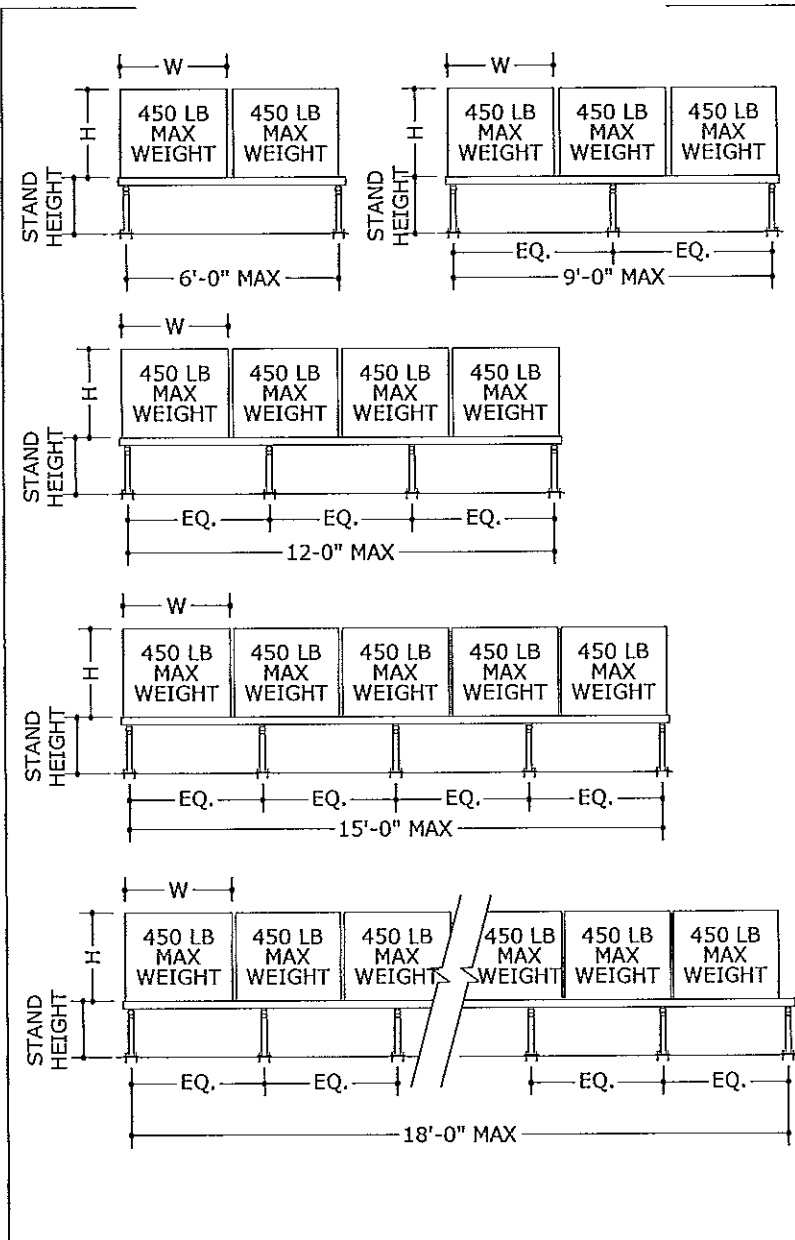
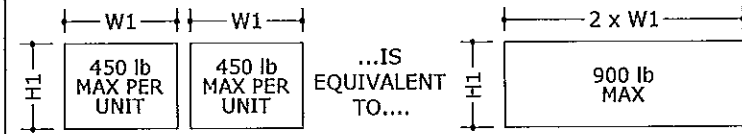
OF 7

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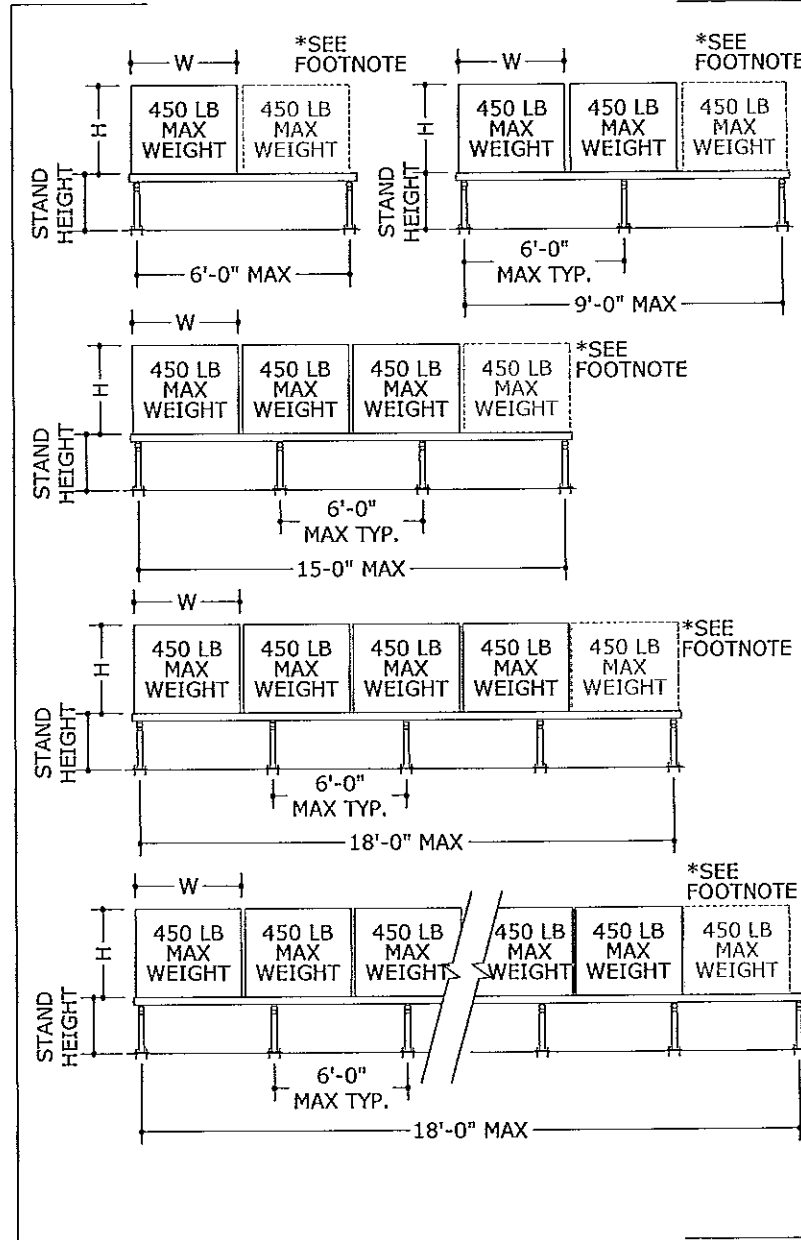
01/20/2014 - 11:11am Chon F:\01 Project Files\Metalum Enterprises (MEE)\2012\12-MEE-01 Telescopic Aluminum Roof Stand\01 Complaint-Attorney Letter\Drawings\12-MEE-01_02a Roof AC Stand (NOA).dwg

STAND/UNIT CONFIGURATIONS & STAND COMPONENTS

NOTE: A/C UNITS WITHIN STAND TYPES MAY BE COMBINED BY USING MAX ADDITIVE WEIGHTS AND WIDTHS; ALL HEIGHT VALUES SHALL REMAIN AS SHOWN HEREIN



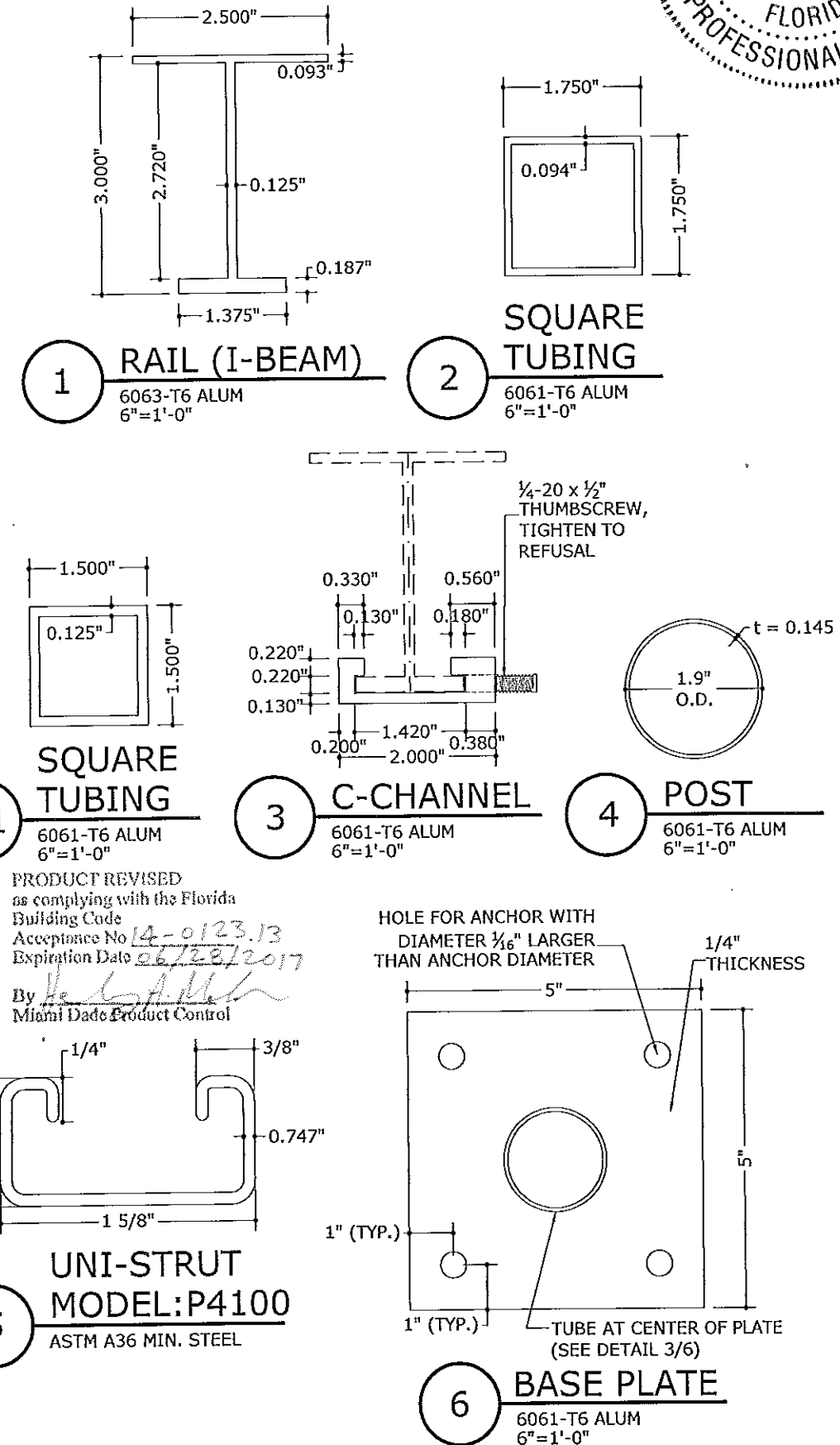
C STAND CONFIGURATION C



D STAND CONFIGURATION D*

* FOR THIS STAND TYPE, ASSEMBLIES WITH UNITS GREATER THAN 30" WIDE SHALL UTILIZE ONE LESS UNIT THAN SHOWN IN MULTI UNIT CONFIGURATIONS

STAND COMPONENTS:



FRANK L. BENNARDO, P.E.
No. 46549
STATE OF FLORIDA
PROFESSIONAL ENGINEER
01/20/2014

ENGINEERING EXPRESS
160 SW 12th AVENUE, #106
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Ph: (954) 354-0660 Fax: (954) 354-0443
WWW.ENGEXP.COM
CERT OF AUTH #9885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

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7500 NW 68 STREET
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ALUMINUM A/C STAND
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MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	CL	03/08/07
REVISE FOR 07 FBC	TSB	CL	02-03-09
REVISE FOR 10 FBC	CSL	TSB	05-21-12
REVISION FOR I-BEAM	CSL	TSB	01-10-14

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12-MEE-01

SCALE: 1" = 1'-0"

PAGE DESCRIPTION:

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DESIGN SCHEDULE & STAND DIRECTIVE EXAMPLE

24" STAND DEPTH

A/C UNIT DIMENSIONS			STAND HEIGHT	ALLOWABLE WIND PRESSURES																LOAD TRANSFER INFORMATION FOR USE WITH HOST STRUCTURE VERIFICATION ONLY (VALUES CALCULATED USING ASD METHODOLOGY)			
				STAND TYPE: A				STAND TYPE: B				STAND TYPE: B1				STAND TYPE: B2							
				ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3		ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3		ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3		ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3					
(W)	(D)*	(H)		MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX. BASE MOMENT (M)	MAX. BASE SHEAR (V)	MAX. BASE UPLIFT (T)	MAX. BASE GRAVITY (C)
24"	24"	24"	18"	200.0 PSF	100.0 PSF	162.7 PSF	81.3 PSF	148.1 PSF	74.0 PSF	95.4 PSF	47.7 PSF	169.1 PSF	84.5 PSF	108.9 PSF	54.4 PSF	190.0 PSF	95.0 PSF	122.3 PSF	61.1 PSF	265.6 LB-FT	285.9 LB	891.2 LB	794.3 LB
32"	32"	32"		143.0 PSF	71.5 PSF	91.3 PSF	45.6 PSF	83.6 PSF	41.8 PSF	53.5 PSF	26.7 PSF	95.5 PSF	47.7 PSF	61.1 PSF	30.5 PSF	107.4 PSF	53.7 PSF	68.6 PSF	34.3 PSF	259.3 LB-FT	279.2 LB	970.1 LB	868.4 LB
35.9"	35.9"	24"		166.7 PSF	83.3 PSF	106.7 PSF	53.3 PSF	97.5 PSF	48.7 PSF	62.5 PSF	31.2 PSF	111.3 PSF	55.6 PSF	71.4 PSF	35.7 PSF	125.1 PSF	62.5 PSF	80.2 PSF	40.1 PSF	261.6 LB-FT	281.6 LB	943.3 LB	722.3 LB
35.9"	35.9"	36"		113.1 PSF	56.5 PSF	72.0 PSF	36.0 PSF	66.1 PSF	33.0 PSF	42.2 PSF	21.1 PSF	75.5 PSF	37.7 PSF	48.2 PSF	24.1 PSF	84.9 PSF	42.4 PSF	54.1 PSF	27.0 PSF	256.4 LB-FT	276.0 LB	1005.6 LB	905.2 LB
24"	24"	24"		200.0 PSF	100.0 PSF	132.3 PSF	66.1 PSF	120.3 PSF	60.1 PSF	77.6 PSF	38.8 PSF	137.5 PSF	68.7 PSF	88.5 PSF	44.2 PSF	154.6 PSF	77.3 PSF	99.4 PSF	49.7 PSF	276.2 LB-FT	232.1 LB	837.6 LB	786.2 LB
36"	36"	24"	24"	137.5 PSF	68.7 PSF	86.8 PSF	43.4 PSF	80.2 PSF	40.1 PSF	50.9 PSF	25.4 PSF	91.7 PSF	45.8 PSF	58.1 PSF	29.0 PSF	103.1 PSF	51.5 PSF	65.2 PSF	32.6 PSF	276.2 LB-FT	232.1 LB	894.2 LB	734.6 LB
32"	32"	32"		119.3 PSF	59.6 PSF	74.7 PSF	37.3 PSF	69.6 PSF	34.8 PSF	43.8 PSF	21.9 PSF	79.5 PSF	39.7 PSF	50.0 PSF	25.0 PSF	89.4 PSF	44.7 PSF	56.1 PSF	28.0 PSF	276.2 LB-FT	232.1 LB	922.9 LB	860.7 LB
36"	36"	36"		95.2 PSF	47.6 PSF	58.9 PSF	29.4 PSF	55.5 PSF	27.7 PSF	34.5 PSF	17.2 PSF	63.4 PSF	31.7 PSF	39.4 PSF	19.7 PSF	71.3 PSF	35.6 PSF	44.2 PSF	22.1 PSF	276.2 LB-FT	232.1 LB	962.6 LB	898.3 LB
42"	42"	42"		70.4 PSF	35.2 PSF	42.9 PSF	21.4 PSF	41.1 PSF	20.5 PSF	25.2 PSF	12.6 PSF	47.0 PSF	23.5 PSF	28.7 PSF	14.3 PSF	52.8 PSF	26.4 PSF	32.3 PSF	16.1 PSF	275.9 LB-FT	231.8 LB	1016.9 LB	954.2 LB
37"	37"	54"		61.8 PSF	30.9 PSF	37.6 PSF	18.8 PSF	36.1 PSF	18.0 PSF	22.0 PSF	11.0 PSF	41.3 PSF	20.6 PSF	25.1 PSF	12.5 PSF	46.4 PSF	23.2 PSF	28.2 PSF	14.1 PSF	270.5 LB-FT	227.2 LB	1077.6 LB	1084.0 LB
24"	24"	24"	32"	160.1 PSF	80.0 PSF	106.2 PSF	53.1 PSF	93.4 PSF	46.7 PSF	62.3 PSF	31.1 PSF	106.7 PSF	53.3 PSF	71.1 PSF	35.5 PSF	120.0 PSF	60.0 PSF	79.8 PSF	39.9 PSF	276.2 LB-FT	180.2 LB	770.9 LB	760.7 LB
36"	36"	24"		106.7 PSF	53.3 PSF	69.9 PSF	34.9 PSF	62.3 PSF	31.1 PSF	41.0 PSF	20.5 PSF	71.1 PSF	35.5 PSF	46.8 PSF	23.4 PSF	80.0 PSF	40.0 PSF	52.5 PSF	26.2 PSF	276.2 LB-FT	180.2 LB	811.0 LB	720.7 LB
32"	32"	32"		92.6 PSF	46.3 PSF	60.2 PSF	30.1 PSF	54.0 PSF	27.0 PSF	35.3 PSF	17.6 PSF	61.7 PSF	30.8 PSF	40.3 PSF	20.1 PSF	69.4 PSF	34.7 PSF	45.3 PSF	22.6 PSF	276.2 LB-FT	180.2 LB	833.3 LB	818.5 LB
36"	36"	36"		73.9 PSF	36.9 PSF	47.6 PSF	23.8 PSF	43.1 PSF	21.5 PSF	27.9 PSF	13.9 PSF	49.2 PSF	24.6 PSF	31.8 PSF	15.9 PSF	55.4 PSF	27.7 PSF	35.7 PSF	17.8 PSF	276.2 LB-FT	180.2 LB	864.1 LB	847.8 LB
42"	42"	42"		54.9 PSF	27.4 PSF	34.8 PSF	17.4 PSF	32.0 PSF	16.0 PSF	20.4 PSF	10.2 PSF	36.6 PSF	18.3 PSF	23.3 PSF	11.6 PSF	41.1 PSF	20.5 PSF	26.2 PSF	13.1 PSF	276.2 LB-FT	180.2 LB	910.1 LB	891.9 LB
37"	37"	54"	49.2 PSF	24.6 PSF	30.6 PSF	15.3 PSF	28.7 PSF	14.3 PSF			32.8 PSF	16.4 PSF	20.5 PSF	10.2 PSF	36.8 PSF	18.4 PSF	23.0 PSF	11.5 PSF	276.2 LB-FT	180.2 LB	974.6 LB	1007.6 LB	

* MECHANICAL UNITS SHALL HAVE A MINIMUM DEPTH AS ILLUSTRATED HEREIN. ALL MECHANICAL UNITS MAY HAVE A MAXIMUM DEPTH EQUAL TO 42" MAX.

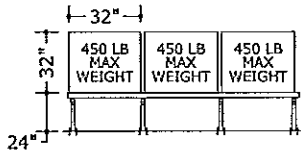
MECHANICAL UNIT STAND DIRECTIVE EXAMPLE

(THE FOLLOWING EXAMPLE ILLUSTRATES THE PROCEDURE USED TO DETERMINE THE MAXIMUM ALLOWABLE WIND PRESSURE & UPLIFT FOR ANY GIVEN MECHANICAL UNIT THAT CONFORMS TO THE DIMENSION RESTRICTIONS LISTED HEREIN. SEE SHEETS 2 & 3 FOR CONFIGURATION TYPES AND COMPONENT SCHEDULE. SEE SHEET 7 FOR ANCHOR SCHEDULES.)

MECHANICAL UNIT/STAND EXAMPLE:

CONSIDER THE INSTALLATION OF (3) MECHANICAL UNITS (32" TALL x 32" DEEP x 32" WIDE, 350 LB MAX WEIGHT AS VERIFIED BY OTHERS), BEING INSTALLED WITH THE FOLLOWING CRITERIA:

- NUMBER OF LEG FRAMES= (4) FRAMES
- STAND HEIGHT= 24" HEIGHT
- STAND DEPTH= 24" STAND DEPTH SPREAD
- HOST STRUCTURE TYPE= 3,000 PSI CONCRETE (AS VERIFIED BY OTHERS)



PROCEDURE:

PROCEDURE STEP		RESULT
1	DETERMINE STAND CONFIGURATION TYPE ON SHEET 2 OR 3	THE (3) UNITS PER (4) LEG FRAMES OPTION FALLS WITHIN CONFIGURATION TYPE B ON SHEET 2.
2	LOCATE DESIGN SCHEDULE FOR 24" STAND DEPTH SPREAD	SCHEDULE CAN BE FOUND ON SHEET 4
3	DETERMINE THE MAXIMUM ALLOWABLE LATERAL & UPLIFT WIND LOADS	FOR A 32"W x 32"D x 32"H UNIT ON AN 24" STAND HEIGHT WITH CONFIGURATION TYPE B, THE ALLOWABLE WIND LOADS ARE AS FOLLOWS: • ALLOWABLE LATERAL WIND LOAD: 69.6 PSF • ALLOWABLE UPLIFT WIND LOAD: 34.8 PSF
5	INSTALL STAND PER PERMISSIBLE ANCHOR TYPES AND VERIFY HOST STRUCTURE TYPE	UTILIZE ANCHOR TYPES FROM DESIGN SCHEDULE ASSOCIATED WITH THE ALLOWABLE WIND VALUES DETERMINED IN STEP 4. FOR THIS EXAMPLE, ANCHOR TYPES 2, 4 OR 5 MAY BE APPLIED. FOR THIS EXAMPLE UTILIZE ANCHOR TYPE 4 FOR CONCRETE HOST STRUCTURE TYPE. INSTALL STANDS PER ANCHOR SCHEDULE AND DETAILS AS ILLUSTRATED ON SHEET 7.

CONCLUSION:

6	MAXIMUM ALLOWABLE LATERAL DESIGN PRESSURE=	= 69.6 PSF
	MAXIMUM ALLOWABLE UPLIFT DESIGN PRESSURE=	= 34.8 PSF
7	COMPARE TO SITE SPECIFIC DESIGN CONDITIONS	(COMPARE ALLOWABLE VALUES FROM STEP #6 TO THE SEPARATE SITE SPECIFIC REQUIRED DESIGN WIND PRESSURE PROVIDED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT; NOT INCLUDED IN THIS CERTIFICATION. SITE-SPECIFIC PRESSURE REQUIREMENTS SHALL BE LESS THAN OR EQUAL TO THE LATERAL AND UPLIFT DESIGN PRESSURE ALLOWABLE CAPACITY VALUES LISTED)

DESIGN SCHEDULE NOTES:

- WHEN USING MULTIPLE SIZES ON ONE STAND, UTILIZE MAXIMUM UNIT SIZE TO DETERMINE ALLOWABLE WIND PRESSURES FROM DESIGN SCHEDULES HEREIN.
- REFERENCE ANCHOR SCHEDULE FOR ANCHOR TYPES LISTED HEREIN.

TABLE LEGEND:

- DENOTES VALUES USED IN EXAMPLE DIRECTIVE
- DENOTES VALUES NOT APPROVED FOR USE

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Expiration Date 06/28/2017
By *[Signature]*
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PAGE DESCRIPTION:
4
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DESIGN SCHEDULES

24" STAND DEPTH

A/C UNIT DIMENSIONS			STAND HEIGHT	ALLOWABLE WIND PRESSURES								MAX. BASE MOMENT (M)	MAX. BASE SHEAR (V)	MAX. BASE UPLIFT (T)	MAX. BASE GRAVITY (C)
				STAND TYPE: C				STAND TYPE: D							
				ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3		ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3					
(W)	(D)*	(H)		MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)				
24"	24"	24"	18"	127.0 PSF	63.5 PSF	81.9 PSF	40.9 PSF	127.0 PSF	63.5 PSF	81.9 PSF	40.9 PSF	265.6 LB-FT	285.9 LB	891.2 LB	794.3 LB
32"	32"	32"		71.8 PSF	35.9 PSF	46.0 PSF	23.0 PSF	86.4 PSF	43.2 PSF	55.3 PSF	27.6 PSF	259.3 LB-FT	279.2 LB	970.1 LB	868.4 LB
35.9"	35.9"	24"		83.6 PSF	41.8 PSF	53.7 PSF	26.8 PSF	100.7 PSF	50.3 PSF	64.6 PSF	32.3 PSF	261.6 LB-FT	281.6 LB	943.3 LB	722.3 LB
35.9"	35.9"	36"		56.7 PSF	28.3 PSF	36.2 PSF	18.1 PSF	68.3 PSF	34.1 PSF	43.6 PSF	21.8 PSF	256.4 LB-FT	276.0 LB	1005.6 LB	905.2 LB
24"	24"	24"	24"	103.1 PSF	51.5 PSF	66.6 PSF	33.3 PSF	103.1 PSF	51.5 PSF	66.6 PSF	33.3 PSF	276.2 LB-FT	232.1 LB	837.6 LB	786.2 LB
36"	36"	24"		68.7 PSF	34.3 PSF	43.7 PSF	21.8 PSF	82.8 PSF	41.4 PSF	52.5 PSF	26.2 PSF	276.2 LB-FT	232.1 LB	894.2 LB	734.6 LB
32"	32"	32"		59.6 PSF	29.8 PSF	37.6 PSF	18.8 PSF	71.9 PSF	35.9 PSF	45.2 PSF	22.6 PSF	276.2 LB-FT	232.1 LB	922.9 LB	860.7 LB
36"	36"	36"		47.6 PSF	23.8 PSF	29.6 PSF	14.8 PSF	57.3 PSF	28.6 PSF	35.6 PSF	17.8 PSF	276.2 LB-FT	232.1 LB	962.6 LB	898.3 LB
42"	42"	42"	32"	35.3 PSF	17.6 PSF	21.6 PSF	10.8 PSF	42.5 PSF	21.2 PSF	26.0 PSF	13.0 PSF	275.9 LB-FT	231.8 LB	1016.9 LB	954.2 LB
37"	37"	54"		31.0 PSF	15.5 PSF			37.3 PSF	18.6 PSF	22.7 PSF	11.3 PSF	270.5 LB-FT	227.2 LB	1077.6 LB	1084.0 LB
24"	24"	24"		80.0 PSF	40.0 PSF	53.5 PSF	26.7 PSF	80.0 PSF	40.0 PSF	53.5 PSF	26.7 PSF	276.2 LB-FT	180.2 LB	770.9 LB	760.7 LB
36"	36"	24"		53.3 PSF	26.6 PSF	35.2 PSF	17.6 PSF	64.3 PSF	32.1 PSF	42.3 PSF	21.1 PSF	276.2 LB-FT	180.2 LB	811.0 LB	720.7 LB
32"	32"	32"	32"	46.3 PSF	23.1 PSF	30.3 PSF	15.1 PSF	55.8 PSF	27.9 PSF	36.4 PSF	18.2 PSF	276.2 LB-FT	180.2 LB	833.3 LB	818.5 LB
36"	36"	36"		36.9 PSF	18.4 PSF	23.9 PSF	11.9 PSF	44.5 PSF	22.2 PSF	28.8 PSF	14.4 PSF	276.2 LB-FT	180.2 LB	864.1 LB	847.8 LB
42"	42"	42"		27.4 PSF	13.7 PSF			33.0 PSF	16.5 PSF	21.1 PSF	10.5 PSF	276.2 LB-FT	180.2 LB	910.1 LB	891.9 LB
37"	37"	54"		24.6 PSF	12.3 PSF			29.6 PSF	14.8 PSF			276.2 LB-FT	180.2 LB	974.6 LB	1007.6 LB

* MECHANICAL UNITS SHALL HAVE A MINIMUM DEPTH AS ILLUSTRATED HEREIN. ALL MECHANICAL UNITS MAY HAVE A MAXIMUM DEPTH EQUAL TO 42" MAX.

DESIGN SCHEDULE NOTES:

1. WHEN USING MULTIPLE SIZES ON ONE STAND, UTILIZE MAXIMUM UNIT SIZE TO DETERMINE ALLOWABLE WIND PRESSURES FROM DESIGN SCHEDULES HEREIN.
2. REFERENCE ANCHOR SCHEDULE FOR ANCHOR TYPES LISTED HEREIN.

TABLE LEGEND:

- DENOTES VALUES NOT APPROVED FOR USE

48" STAND DEPTH

A/C UNIT DIMENSIONS			STAND HEIGHT	ALLOWABLE WIND PRESSURES																MAX. BASE MOMENT (M)	MAX. BASE SHEAR (V)	MAX. BASE UPLIFT (T)	MAX. BASE GRAVITY (C)
				STAND TYPE: A				STAND TYPE: B				STAND TYPE: B1				STAND TYPE: B2							
				ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3		ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3		ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3		ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3					
(W)	(D)*	(H)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)					
24"	24"	24"	200.0 PSF	100.0 PSF	170.2 PSF	85.1 PSF	137.9 PSF	68.9 PSF	99.8 PSF	49.9 PSF	157.6 PSF	78.8 PSF	113.9 PSF	56.9 PSF	177.2 PSF	88.6 PSF	127.9 PSF	63.9 PSF	276.2 LB-FT	265.9 LB	463.8 LB	382.4 LB	
32"	32"	32"	136.7 PSF	68.3 PSF	96.8 PSF	48.4 PSF	79.7 PSF	39.8 PSF	56.8 PSF	28.4 PSF	91.1 PSF	45.5 PSF	64.8 PSF	32.4 PSF	102.5 PSF	51.2 PSF	72.8 PSF	36.4 PSF	276.2 LB-FT	265.9 LB	516.6 LB	423.4 LB	
35.9"	35.9"	24"	158.0 PSF	79.0 PSF	111.5 PSF	55.7 PSF	92.1 PSF	46.0 PSF	65.4 PSF	32.7 PSF	105.3 PSF	52.6 PSF	74.6 PSF	37.3 PSF	118.4 PSF	59.2 PSF	83.8 PSF	41.9 PSF	276.2 LB-FT	265.9 LB	527.5 LB	323.8 LB	
35.9"	35.9"	36"	109.4 PSF	54.7 PSF	76.9 PSF	38.4 PSF	63.8 PSF	31.9 PSF	45.0 PSF	22.5 PSF	72.9 PSF	36.4 PSF	51.4 PSF	25.7 PSF	82.0 PSF	41.0 PSF	57.7 PSF	28.8 PSF	276.2 LB-FT	265.9 LB	539.5 LB	444.7 LB	
24"	24"	24"	186.1 PSF	93.0 PSF	138.2 PSF	69.1 PSF	108.5 PSF	54.2 PSF	81.0 PSF	40.5 PSF	124.0 PSF	62.0 PSF	92.5 PSF	46.2 PSF	139.5 PSF	69.7 PSF	103.9 PSF	51.9 PSF	276.2 LB-FT	209.3 LB	418.2 LB	382.1 LB	
36"	36"	24"	124.0 PSF	62.0 PSF	90.6 PSF	45.3 PSF	72.3 PSF	36.1 PSF	53.1 PSF	26.5 PSF	82.7 PSF	41.3 PSF	60.6 PSF	30.3 PSF	93.0 PSF	46.5 PSF	68.1 PSF	34.0 PSF	276.2 LB-FT	209.3 LB	464.8 LB	335.6 LB	
32"	32"	32"	107.6 PSF	53.8 PSF	78.9 PSF	39.4 PSF	62.8 PSF	31.4 PSF	46.2 PSF	23.1 PSF	71.7 PSF	35.8 PSF	52.8 PSF	26.4 PSF	80.7 PSF	40.3 PSF	59.3 PSF	29.6 PSF	276.2 LB-FT	209.3 LB	455.8 LB	414.4 LB	
36"	36"	36"	85.8 PSF	42.9 PSF	62.5 PSF	31.2 PSF	50.1 PSF	25.0 PSF	36.6 PSF	18.3 PSF	57.2 PSF	28.6 PSF	41.8 PSF	20.9 PSF	64.3 PSF	32.1 PSF	47.0 PSF	23.5 PSF	276.2 LB-FT	209.3 LB	474.2 LB	430.9 LB	
42"	42"	42"	63.8 PSF	31.9 PSF	46.0 PSF	23.0 PSF	37.2 PSF	18.6 PSF	26.9 PSF	13.4 PSF	42.5 PSF	21.2 PSF	30.7 PSF	15.3 PSF	47.8 PSF	23.9 PSF	34.5 PSF	17.2 PSF	276.2 LB-FT	209.3 LB	501.4 LB	456.0 LB	
37"	37"	54"	57.1 PSF	28.5 PSF	40.9 PSF	20.4 PSF	33.3 PSF	16.6 PSF	23.9 PSF	11.9 PSF	38.1 PSF	19.0 PSF	27.3 PSF	13.6 PSF	42.8 PSF	21.4 PSF	30.7 PSF	15.3 PSF	276.2 LB-FT	209.3 LB	524.0 LB	538.1 LB	
24"	24"	24"	146.1 PSF	73.0 PSF	111.2 PSF	55.6 PSF	85.2 PSF	42.6 PSF	65.2 PSF	32.6 PSF	97.4 PSF	48.7 PSF	74.4 PSF	37.2 PSF	109.5 PSF	54.7 PSF	83.6 PSF	41.8 PSF	276.2 LB-FT	164.3 LB	379.9 LB	383.8 LB	
36"	36"	24"	97.4 PSF	48.7 PSF	73.2 PSF	36.6 PSF	56.8 PSF	28.4 PSF	42.9 PSF	21.4 PSF	64.9 PSF	32.4 PSF	48.9 PSF	24.4 PSF	73.0 PSF	36.5 PSF	55.0 PSF	27.5 PSF	276.2 LB-FT	164.3 LB	416.5 LB	347.3 LB	
32"	32"	32"	84.5 PSF	42.2 PSF	63.6 PSF	31.8 PSF	49.3 PSF	24.6 PSF	37.3 PSF	18.6 PSF	56.3 PSF	28.1 PSF	42.6 PSF	21.3 PSF	63.3 PSF	31.6 PSF	47.8 PSF	23.9 PSF	276.2 LB-FT	164.3 LB	409.4 LB	409.1 LB	
36"	36"	36"	67.4 PSF	33.7 PSF	50.5 PSF	25.2 PSF	39.3 PSF	19.6 PSF	29.6 PSF	14.8 PSF	44.9 PSF	22.4 PSF	33.8 PSF	16.9 PSF	50.5 PSF	25.2 PSF	37.9 PSF	18.9 PSF	276.2 LB-FT	164.3 LB	423.8 LB	422.1 LB	
42"	42"	42"	50.0 PSF	25.0 PSF	37.2 PSF	18.6 PSF	29.2 PSF	14.6 PSF	21.8 PSF	10.9 PSF	33.3 PSF	16.6 PSF	24.9 PSF	12.4 PSF	37.5 PSF	18.7 PSF	27.9 PSF	13.9 PSF	276.2 LB-FT	164.3 LB	445.2 LB	441.8 LB	
37"	37"	54"	44.8 PSF	22.4 PSF	33.1 PSF	16.5 PSF	26.1 PSF	13.0 PSF			29.9 PSF	14.9 PSF	22.1 PSF	11.0 PSF	33.6 PSF	16.8 PSF	24.9 PSF	12.4 PSF	276.2 LB-FT	164.3 LB	463.0 LB	506.3 LB	

* MECHANICAL UNITS SHALL HAVE A MINIMUM DEPTH AS ILLUSTRATED HEREIN. ALL MECHANICAL UNITS MAY HAVE A MAXIMUM DEPTH EQUAL TO 42" MAX.

48" STAND DEPTH

A/C UNIT DIMENSIONS			STAND HEIGHT	ALLOWABLE WIND PRESSURES								MAX. BASE MOMENT (M)	MAX. BASE SHEAR (V)	MAX. BASE UPLIFT (T)	MAX. BASE GRAVITY (C)
				STAND TYPE: C				STAND TYPE: D							
				ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3		ANCHOR TYPE: 2, 4 OR 5		ANCHOR TYPE: 1 OR 3					
(W)	(D)*	(H)		MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)				
24"	24"	24"	18"	118.2 PSF	59.1 PSF	85.7 PSF	42.8 PSF	118.2 PSF	59.1 PSF	85.7 PSF	42.8 PSF	276.2 LB-FT	265.9 LB	463.8 LB	382.4 LB
32"	32"	32"		68.3 PSF	34.1 PSF	48.7 PSF	24.3 PSF	82.3 PSF	41.1 PSF	58.6 PSF	29.3 PSF	276.2 LB-FT	265.9 LB	516.6 LB	423.4 LB
35.9"	35.9"	24"		79.0 PSF	39.5 PSF	56.1 PSF	28.0 PSF	95.2 PSF	47.6 PSF	67.5 PSF	33.7 PSF	276.2 LB-FT	265.9 LB	527.5 LB	323.8 LB
35.9"	35.9"	36"		54.7 PSF	27.3 PSF	38.7 PSF	19.3 PSF	65.9 PSF	32.9 PSF	46.5 PSF	23.2 PSF	276.2 LB-FT	265.9 LB	539.5 LB	444.7 LB
24"	24"	24"	24"	93.0 PSF	46.5 PSF	69.6 PSF	34.8 PSF	93.0 PSF	46.5 PSF	69.6 PSF	34.8 PSF	276.2 LB-FT	209.3 LB	418.2 LB	382.1 LB
36"	36"	24"		62.0 PSF	31.0 PSF	45.6 PSF	22.8 PSF	74.7 PSF	37.3 PSF	54.8 PSF	27.4 PSF	276.2 LB-FT	209.3 LB	464.8 LB	335.6 LB
32"	32"	32"		53.8 PSF	26.9 PSF	39.7 PSF	19.8 PSF	64.8 PSF	32.4 PSF	47.7 PSF	23.8 PSF	276.2 LB-FT	209.3 LB	455.8 LB	414.4 LB
36"	36"	36"		42.9 PSF	21.4 PSF	31.5 PSF	15.7 PSF	51.7 PSF	25.8 PSF	37.8 PSF	18.9 PSF	276.2 LB-FT	209.3 LB	474.2 LB	430.9 LB
42"	42"	42"	32"	31.9 PSF	15.9 PSF	23.1 PSF	11.5 PSF	38.4 PSF	19.2 PSF	27.8 PSF	13.9 PSF	276.2 LB-FT	209.3 LB	501.4 LB	456.0 LB
37"	37"	54"		28.5 PSF	14.2 PSF	20.6 PSF	10.3 PSF	34.4 PSF	17.2 PSF	24.7 PSF	12.3 PSF	276.2 LB-FT	209.3 LB	524.0 LB	538.1 LB
24"	24"	24"		73.0 PSF	36.5 PSF	56.0 PSF	28.0 PSF	73.0 PSF	36.5 PSF	56.0 PSF	28.0 PSF	276.2 LB-FT	164.3 LB	379.9 LB	383.8 LB
36"	36"	24"		48.7 PSF	24.3 PSF	36.8 PSF	18.4 PSF	58.6 PSF	29.3 PSF	44.3 PSF	22.1 PSF	276.2 LB-FT	164.3 LB	416.5 LB	347.3 LB
32"	32"	32"	32"	42.2 PSF	21.1 PSF	32.0 PSF	16.0 PSF	50.9 PSF	25.4 PSF	38.5 PSF	19.2 PSF	276.2 LB-FT	164.3 LB	409.4 LB	409.1 LB
36"	36"	36"		33.7 PSF	16.8 PSF	25.4 PSF	12.7 PSF	40.6 PSF	20.3 PSF	30.5 PSF	15.2 PSF	276.2 LB-FT	164.3 LB	423.8 LB	422.1 LB
42"	42"	42"		25.0 PSF	12.5 PSF			30.1 PSF	15.0 PSF	22.5 PSF	11.2 PSF	276.2 LB-FT	164.3 LB	445.2 LB	441.8 LB
37"	37"	54"		22.4 PSF	11.2 PSF			27.0 PSF	13.5 PSF	20.0 PSF	10.0 PSF	276.2 LB-FT	164.3 LB	463.0 LB	506.3 LB

DESIGN SCHEDULES & CONCRETE COVERED BASEPLATE DETAIL

24" STAND DEPTH, WITH 4" THICK CONCRETE COVERING (SEE DETAIL 4/6)

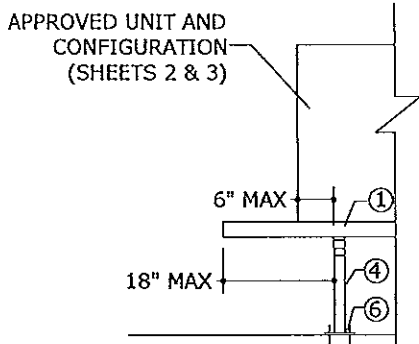
A/C UNIT DIMENSIONS			STAND HEIGHT	ALLOWABLE WIND PRESSURES												MAX. BASE MOMENT (M)	MAX. BASE SHEAR (V)	MAX. BASE UPLIFT (T)	MAX. BASE GRAVITY (C)
(W)	(D)*	(H)		STAND TYPE: A		STAND TYPE: B		STAND TYPE: B1		STAND TYPE: B2		STAND TYPE: C		STAND TYPE: D					
				ANCHOR TYPE: 3 OR 4		ANCHOR TYPE: 3 OR 4		ANCHOR TYPE: 3 OR 4		ANCHOR TYPE: 3 OR 4		ANCHOR TYPE: 3 OR 4		ANCHOR TYPE: 3 OR 4					
				MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)				
24"	24"	24"	18"	200.0 PSF	100.0 PSF	193.2 PSF	96.6 PSF	200.0 PSF	100.0 PSF	200.0 PSF	100.0 PSF	165.6 PSF	82.8 PSF	165.6 PSF	82.8 PSF	346.2 LB-FT	372.7 LB	1165.0 LB	994.4 LB
32"	32"	32"		173.2 PSF	86.6 PSF	111.8 PSF	55.9 PSF	127.8 PSF	63.9 PSF	143.7 PSF	71.8 PSF	95.8 PSF	47.9 PSF	115.4 PSF	57.7 PSF	346.2 LB-FT	372.7 LB	1299.7 LB	1113.9 LB
35.9"	35.9"	24"		200.0 PSF	100.0 PSF	129.2 PSF	64.6 PSF	147.6 PSF	73.8 PSF	166.0 PSF	83.0 PSF	110.7 PSF	55.3 PSF	133.4 PSF	66.7 PSF	346.2 LB-FT	372.7 LB	1252.9 LB	912.2 LB
35.9"	35.9"	36"		130.3 PSF	65.1 PSF	89.4 PSF	44.7 PSF	102.2 PSF	51.1 PSF	114.9 PSF	57.4 PSF	76.6 PSF	38.3 PSF	92.3 PSF	46.1 PSF	346.2 LB-FT	372.7 LB	1363.0 LB	1174.9 LB
24"	24"	24"		200.0 PSF	100.0 PSF	136.3 PSF	68.1 PSF	155.7 PSF	77.8 PSF	175.1 PSF	87.5 PSF	116.8 PSF	58.4 PSF	116.8 PSF	58.4 PSF	312.9 LB-FT	262.9 LB	951.2 LB	872.6 LB
36"	36"	24"	24"	155.7 PSF	77.8 PSF	90.8 PSF	45.4 PSF	103.8 PSF	51.9 PSF	116.7 PSF	58.3 PSF	77.8 PSF	38.9 PSF	93.8 PSF	46.9 PSF	312.9 LB-FT	262.9 LB	1014.7 LB	814.1 LB
32"	32"	32"		135.2 PSF	67.6 PSF	78.8 PSF	39.4 PSF	90.1 PSF	45.0 PSF	101.3 PSF	50.6 PSF	67.6 PSF	33.8 PSF	81.4 PSF	40.7 PSF	312.9 LB-FT	262.9 LB	1047.2 LB	956.9 LB
36"	36"	36"		107.8 PSF	53.9 PSF	62.9 PSF	31.4 PSF	71.9 PSF	35.9 PSF	80.8 PSF	40.4 PSF	53.9 PSF	26.9 PSF	64.9 PSF	32.4 PSF	312.9 LB-FT	262.9 LB	1092.2 LB	999.5 LB
42"	42"	42"		80.1 PSF	40.0 PSF	46.7 PSF	23.3 PSF	53.4 PSF	26.7 PSF	60.0 PSF	30.0 PSF	40.0 PSF	20.0 PSF	48.2 PSF	24.1 PSF	312.9 LB-FT	262.9 LB	1159.3 LB	1063.9 LB
37"	37"	54"		71.2 PSF	35.6 PSF	41.8 PSF	20.9 PSF	47.8 PSF	23.9 PSF	53.8 PSF	26.9 PSF	35.9 PSF	17.9 PSF	43.2 PSF	21.6 PSF	312.9 LB-FT	262.9 LB	1248.4 LB	1232.7 LB
24"	24"	24"	32"	166.9 PSF	83.4 PSF	97.3 PSF	48.6 PSF	111.2 PSF	55.6 PSF	125.1 PSF	62.5 PSF	83.4 PSF	41.7 PSF	83.4 PSF	41.7 PSF	287.9 LB-FT	187.8 LB	804.0 LB	787.1 LB
36"	36"	24"		111.2 PSF	55.6 PSF	64.9 PSF	32.4 PSF	74.1 PSF	37.0 PSF	83.4 PSF	41.7 PSF	55.6 PSF	27.8 PSF	67.0 PSF	33.5 PSF	287.9 LB-FT	187.8 LB	845.7 LB	745.3 LB
32"	32"	32"		96.5 PSF	48.2 PSF	56.3 PSF	28.1 PSF	64.3 PSF	32.1 PSF	72.4 PSF	36.2 PSF	48.2 PSF	24.1 PSF	58.1 PSF	29.0 PSF	287.9 LB-FT	187.8 LB	869.0 LB	847.3 LB
36"	36"	36"		77.0 PSF	38.5 PSF	44.9 PSF	22.4 PSF	51.3 PSF	25.6 PSF	57.7 PSF	28.8 PSF	38.5 PSF	19.2 PSF	46.4 PSF	23.2 PSF	287.9 LB-FT	187.8 LB	901.1 LB	877.8 LB
42"	42"	42"		57.2 PSF	28.6 PSF	33.3 PSF	16.6 PSF	38.1 PSF	19.0 PSF	42.9 PSF	21.4 PSF	28.6 PSF	14.3 PSF	34.4 PSF	17.2 PSF	287.9 LB-FT	187.8 LB	949.0 LB	923.7 LB
37"	37"	54"		51.2 PSF	25.6 PSF	29.9 PSF	14.9 PSF	34.1 PSF	17.0 PSF	38.4 PSF	19.2 PSF	25.6 PSF	12.8 PSF	30.8 PSF	15.4 PSF	287.9 LB-FT	187.8 LB	1016.2 LB	1044.3 LB

* MECHANICAL UNITS SHALL HAVE A MINIMUM DEPTH AS ILLUSTRATED HEREIN. ALL MECHANICAL UNITS MAY HAVE A MAXIMUM DEPTH EQUAL TO 42" MAX.

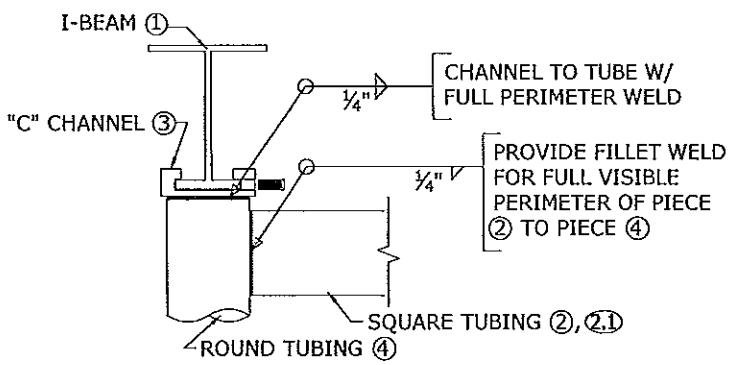
48" STAND DEPTH, WITH 4" THICK CONCRETE COVERING (SEE DETAIL 4/6)

A/C UNIT DIMENSIONS			STAND HEIGHT	ALLOWABLE WIND PRESSURES												MAX. BASE MOMENT (M)	MAX. BASE SHEAR (V)	MAX. BASE UPLIFT (T)	MAX. BASE GRAVITY (C)
(W)	(D)*	(H)		STAND TYPE: A		STAND TYPE: B		STAND TYPE: B1		STAND TYPE: B2		STAND TYPE: C		STAND TYPE: D					
				ANCHOR TYPE: 3 OR 4		ANCHOR TYPE: 3 OR 4		ANCHOR TYPE: 3 OR 4		ANCHOR TYPE: 3 OR 4		ANCHOR TYPE: 3 OR 4		ANCHOR TYPE: 3 OR 4					
				MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)	MAX ALLOWABLE LATERAL LOAD (PSF)	MAX ALLOWABLE UPLIFT (PSF)				
24"	24"	24"	18"	200.0 PSF	100.0 PSF	200.0 PSF	100.0 PSF	200.0 PSF	100.0 PSF	200.0 PSF	100.0 PSF	200.0 PSF	100.0 PSF	200.0 PSF	100.0 PSF	467.4 LB-FT	449.9 LB	788.7 LB	553.7 LB
32"	32"	32"		177.4 PSF	88.7 PSF	138.5 PSF	69.2 PSF	158.2 PSF	79.1 PSF	172.0 PSF	86.0 PSF	118.7 PSF	59.3 PSF	143.0 PSF	71.5 PSF	479.5 LB-FT	461.6 LB	900.2 LB	635.6 LB
35.9"	35.9"	24"		200.0 PSF	100.0 PSF	160.0 PSF	80.0 PSF	182.8 PSF	91.4 PSF	200.0 PSF	100.0 PSF	137.1 PSF	68.5 PSF	165.2 PSF	82.6 PSF	479.5 LB-FT	461.6 LB	919.2 LB	462.8 LB
35.9"	35.9"	36"		152.2 PSF	76.1 PSF	110.7 PSF	55.3 PSF	126.6 PSF	63.3 PSF	142.3 PSF	71.1 PSF	94.9 PSF	47.4 PSF	114.4 PSF	57.2 PSF	479.5 LB-FT	461.6 LB	942.6 LB	672.7 LB
24"	24"	24"		200.0 PSF	100.0 PSF	162.2 PSF	81.1 PSF	185.4 PSF	92.7 PSF	200.0 PSF	100.0 PSF	139.0 PSF	69.5 PSF	139.0 PSF	69.5 PSF	412.9 LB-FT	312.9 LB	625.0 LB	504.4 LB
36"	36"	24"	24"	185.4 PSF	92.7 PSF	108.1 PSF	54.0 PSF	123.6 PSF	61.8 PSF	139.0 PSF	69.5 PSF	92.7 PSF	46.3 PSF	111.7 PSF	55.8 PSF	412.9 LB-FT	312.9 LB	702.0 LB	434.8 LB
32"	32"	32"		160.9 PSF	80.4 PSF	93.8 PSF	46.9 PSF	107.2 PSF	53.6 PSF	120.6 PSF	60.3 PSF	80.4 PSF	40.2 PSF	96.9 PSF	48.4 PSF	412.9 LB-FT	312.9 LB	688.6 LB	552.5 LB
36"	36"	36"		128.3 PSF	64.1 PSF	74.8 PSF	37.4 PSF	85.5 PSF	42.7 PSF	96.2 PSF	48.1 PSF	64.1 PSF	32.0 PSF	77.3 PSF	38.6 PSF	412.9 LB-FT	312.9 LB	716.1 LB	577.2 LB
42"	42"	42"		95.3 PSF	47.6 PSF	55.6 PSF	27.8 PSF	63.5 PSF	31.7 PSF	71.4 PSF	35.7 PSF	47.6 PSF	23.8 PSF	57.4 PSF	28.7 PSF	412.9 LB-FT	312.9 LB	756.8 LB	614.7 LB
37"	37"	54"		85.4 PSF	42.7 PSF	49.8 PSF	24.9 PSF	56.9 PSF	28.4 PSF	64.0 PSF	32.0 PSF	42.7 PSF	21.3 PSF	51.4 PSF	25.7 PSF	412.9 LB-FT	312.9 LB	790.6 LB	737.4 LB
24"	24"	24"	32"	191.9 PSF	95.9 PSF	111.9 PSF	55.9 PSF	127.9 PSF	63.9 PSF	143.8 PSF	71.9 PSF	95.9 PSF	47.9 PSF	95.9 PSF	47.9 PSF	362.9 LB-FT	215.9 LB	503.8 LB	461.8 LB
36"	36"	24"		127.9 PSF	63.9 PSF	74.6 PSF	37.3 PSF	85.3 PSF	42.6 PSF	95.9 PSF	47.9 PSF	63.9 PSF	31.9 PSF	77.0 PSF	38.5 PSF	362.9 LB-FT	215.9 LB	551.8 LB	413.9 LB
32"	32"	32"		111.0 PSF	55.5 PSF	64.7 PSF	32.3 PSF	74.0 PSF	37.0 PSF	83.2 PSF	41.6 PSF	55.5 PSF	27.7 PSF	66.8 PSF	33.4 PSF	362.9 LB-FT	215.9 LB	542.5 LB	495.1 LB
36"	36"	36"		88.5 PSF	44.2 PSF	51.6 PSF	25.8 PSF	59.0 PSF	29.5 PSF	66.4 PSF	33.2 PSF	44.2 PSF	22.1 PSF	53.3 PSF	26.6 PSF	362.9 LB-FT	215.9 LB	561.5 LB	512.1 LB
42"	42"	42"		65.8 PSF	32.9 PSF	38.3 PSF	19.1 PSF	43.8 PSF	21.9 PSF	49.3 PSF	24.6 PSF	32.9 PSF	16.4 PSF	39.6 PSF	19.8 PSF	362.9 LB-FT	215.9 LB	589.6 LB	538.0 LB
37"	37"	54"		58.9 PSF	29.4 PSF	34.4 PSF	17.2 PSF	39.3 PSF	19.6 PSF	44.2 PSF	22.1 PSF	29.4 PSF	14.7 PSF	35.5 PSF	17.7 PSF	362.9 LB-FT	215.9 LB	612.9 LB	622.7 LB

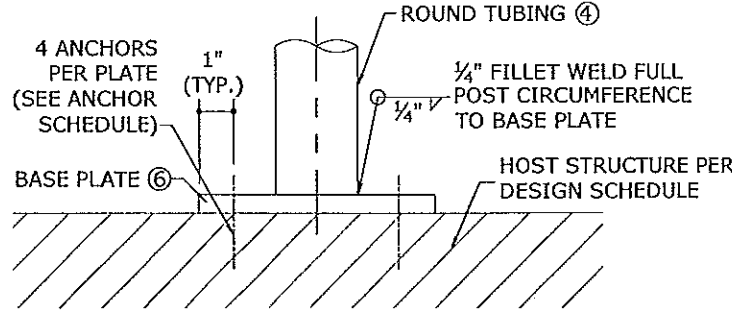
* MECHANICAL UNITS SHALL HAVE A MINIMUM DEPTH AS ILLUSTRATED HEREIN. ALL MECHANICAL UNITS MAY HAVE A MAXIMUM DEPTH EQUAL TO 42" MAX.



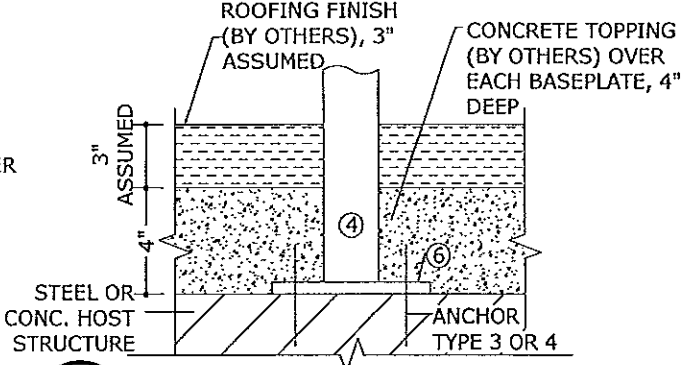
1 ENDPOST DETAIL
6 N.T.S. ELEVATION VIEW



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



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



4 CONC. TOPPING OPTION
6 2" = 1'-0" SECTION VIEW

DESIGN SCHEDULE NOTES:
1. WHEN USING MULTIPLE SIZES ON ONE STAND, UTILIZE MAXIMUM UNIT SIZE TO DETERMINE ALLOWABLE WIND PRESSURES FROM DESIGN SCHEDULES HEREIN.
2. REFERENCE ANCHOR SCHEDULE FOR ANCHOR TYPES LISTED HEREIN.

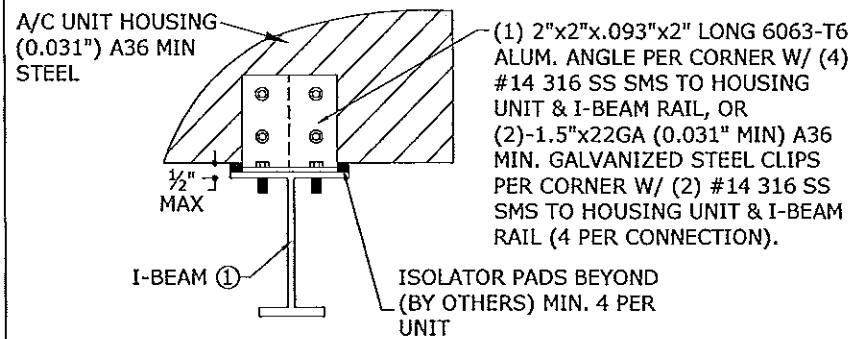
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0123.13
Expiration Date 06/30/2017
By: [Signature]
Miami Dade Product Control

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01/20/2014

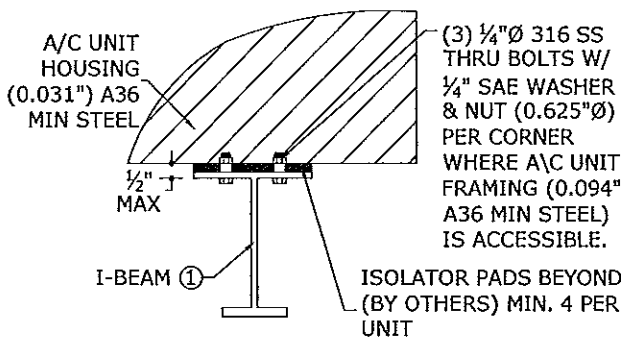
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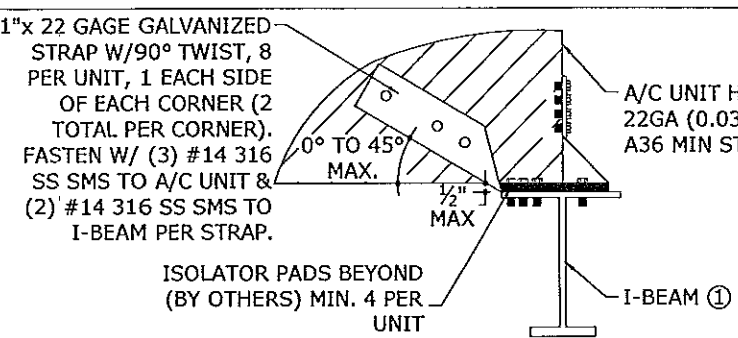
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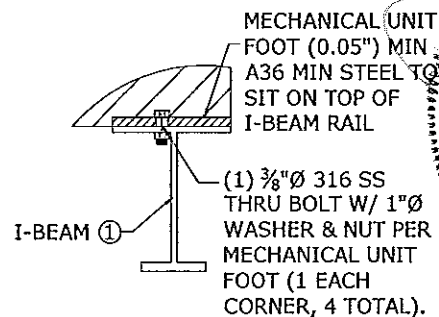
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7 A/C UNIT TIE-DOWN DETAIL
SCALE: 3"=1'-0"



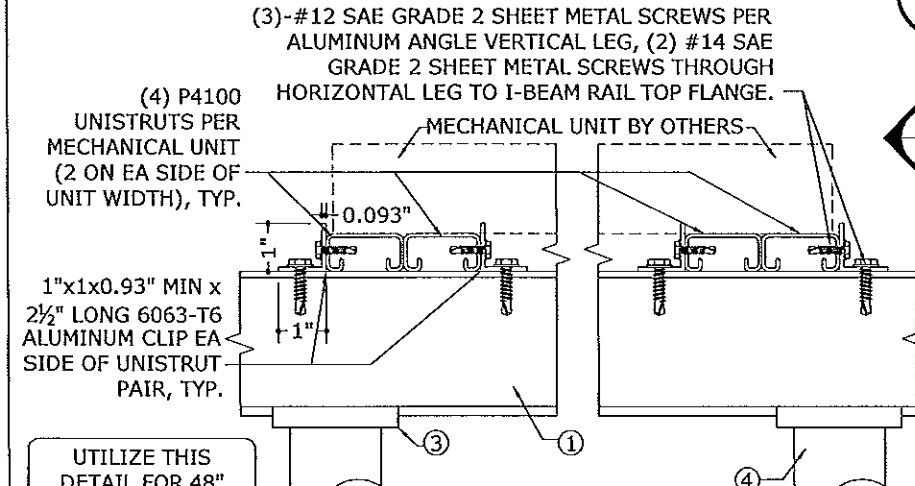
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7 ALT. A/C UNIT TIE-DOWN DETAIL
SCALE: 3"=1'-0"



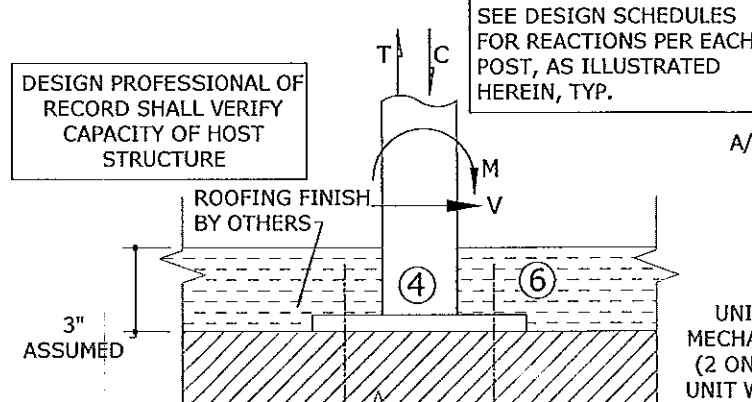
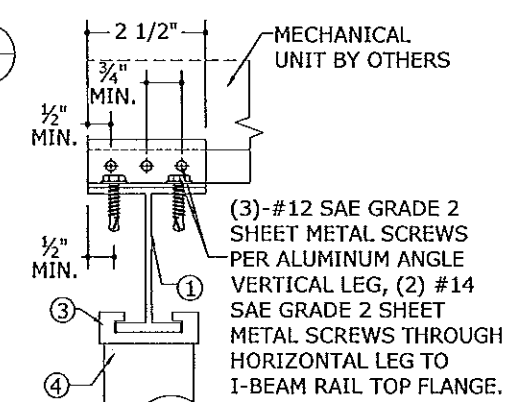
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7 ALT. A/C UNIT TIE-DOWN DETAIL
SCALE: 3"=1'-0"



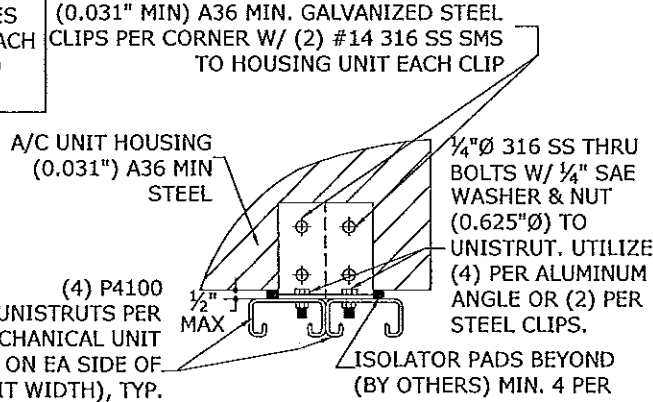
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7 ALT. A/C UNIT TIE-DOWN DETAIL
SCALE: 3"=1'-0"



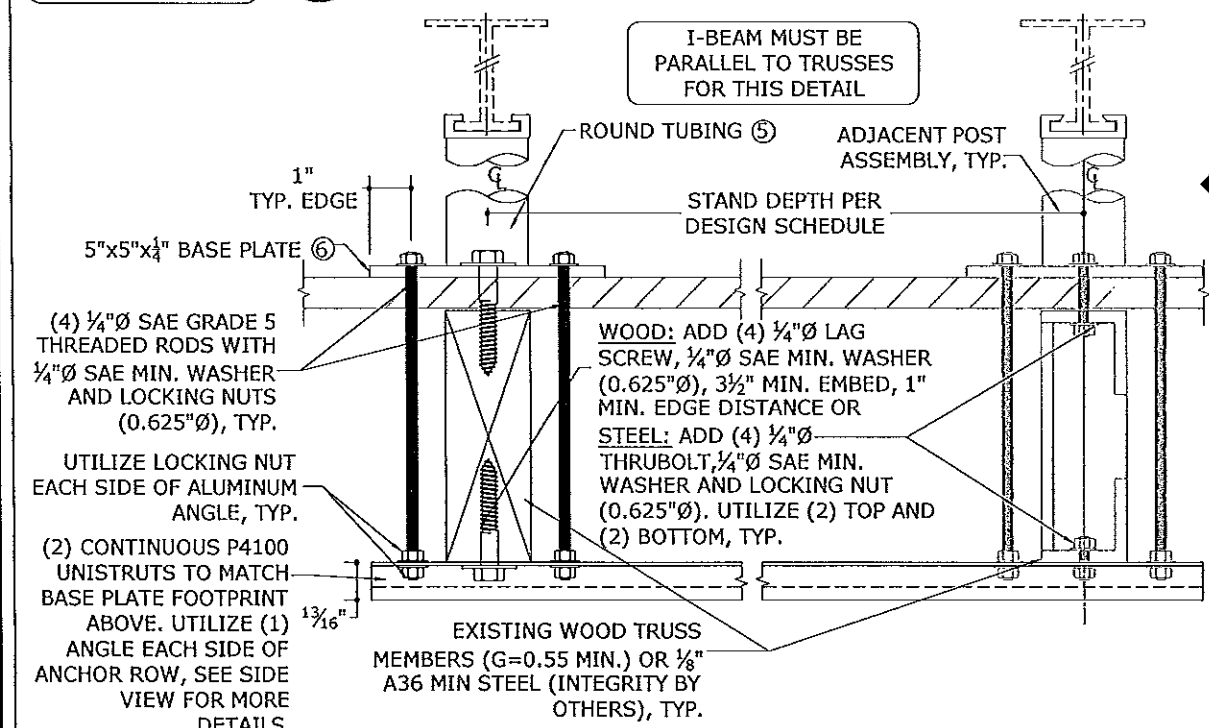
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7 UNISTRUT ATTACHMENT
SCALE: 3"=1'-0"



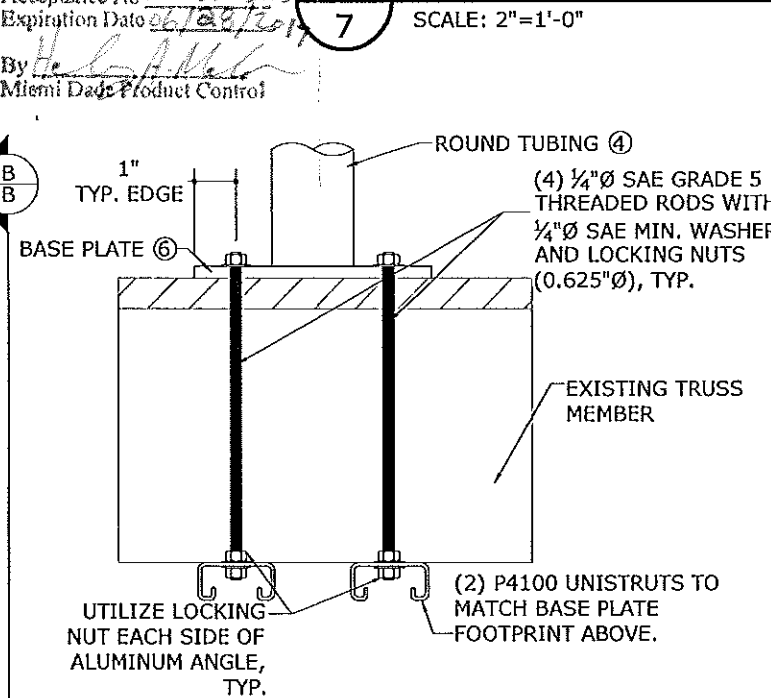
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7 BASEPLATE REACTIONS
SCALE: 2"=1'-0"



7
7 A/C UNIT TIE-DOWN TO UNISTRUT DETAIL
SCALE: 2"=1'-0"



6
7 ALTERNATE BASE PLATE ATTACHMENT AT WOOD/STEEL TRUSS MEMBERS
SCALE: 3"=1'-0"



SECTION B-B (SIDE-VIEW)

ANCHOR SCHEDULE:

ANCHOR TYPE	HOST STRUCTURE	ANCHOR DESCRIPTION
1	STEEL	#14 SAE GRADE 5 SHEET METAL SCREWS W/ 1/4" SAE WASHER (0.625"Ø) TO STRUCTURAL STEEL MEMBERS (1/8" MIN THICKNESS)
2	WOOD	3/8"Ø SAE GRADE 2 LAG SCREW W/ 3/8" SAE WASHER (0.812"Ø), 3-1/2" MIN THREAD PENETRATION, 1" MIN EDGE DISTANCE TO WOOD FRAMING MEMBER
3†	STEEL	3/8"Ø SAE GRADE 5 SHEET METAL SCREWS W/ 3/8" SAE WASHER (0.812"Ø) TO STRUCTURAL STEEL MEMBERS (1/8" MIN THICKNESS).
4†	CONCRETE	1/4"Ø POWERS WEDGE-BOLT CONCRETE ANCHOR WITH W/ 1/4" SAE WASHER (0.625"Ø), 2-1/2" MIN EMBEDMENT & 3" MIN EDGE DISTANCE TO 3KSI MIN CONCRETE
5	STEEL	1/4"Ø SAE GRADE 5 THRU-BOLT WITH 1/4" SAE WASHER & NUT (0.625"Ø) TO STRUCTURAL STEEL MEMBERS (1/8" MIN THICKNESS)

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.
- CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE SUBSTRATE ONLY. CONCRETE SUBSTRATE MINIMUM THICKNESS SHALL BE 1.5xANCHOR EMBEDMENT.

† - THIS ANCHOR IS INTENDED FOR USE WITH OR WITHOUT CONCRETE COVERED BASEPLATES. SEE SHEET 6 FOR MORE INFORMATION.

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