

MIAMI-DADE COUNTY, FLORIDA PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

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 and accepted by Miami–Dade County RER–Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami–Dade County Product Control Section (In Miami–Dade County) and/or the AHJ (in areas other than Miami–Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Aluminum Stand for Mechanical Units

APPROVAL DOCUMENT: Drawing No. **23-61608**, titled "Aluminum Stand for Mechanical Units (AS14)", sheets 1 through 5 of 5, dated 06/20/2023, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 03/07/2024.bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number & expiration date by Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, 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 revises and renews NOA# 20-1013.03 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Sifang Zhao, P.E.



9,2. 09/05/2024

NOA No. 24-0319.03 Expiration Date: September 05, 2029 Approval Date: September 05, 2024

Page 1

Miami Tech, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **23-61608**, titled "Aluminum Stand for Mechanical Units (AS14)", sheets 1 through 5 of 5, dated 06/20/2023, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 03/07/2024.

B. TESTS

Load Testing of Aluminum A/C Stand Post to Welded Baseplate, prepared by QC Metallurgical, Inc., QCM Job No. 15KM-958, dated 11/13/15, signed by Jerry Iaciofano (Voluntary Testing)
(Submitted under NOA No. 15-0902.05)

C. CALCULATIONS

- 1. Engineering design calculations, prepared by Engineering Express, dated 03/14/2024, signed and sealed by Frank L. Bernardo, P.E.
- 2. Engineering design calculations, prepared by Engineering Express, dated 05/25/16 and last revised on 06/23/16, signed and sealed by Frank L. Bernardo, P.E. (Submitted under NOA No. 16-0601.01)

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letters dated 02/20/2024 indicating compliance to FBC 2023 (8th Edition) and no financial interest prepared by Engineering Express signed & sealed by Frank L. Bernardo, P.E.

G. OTHER

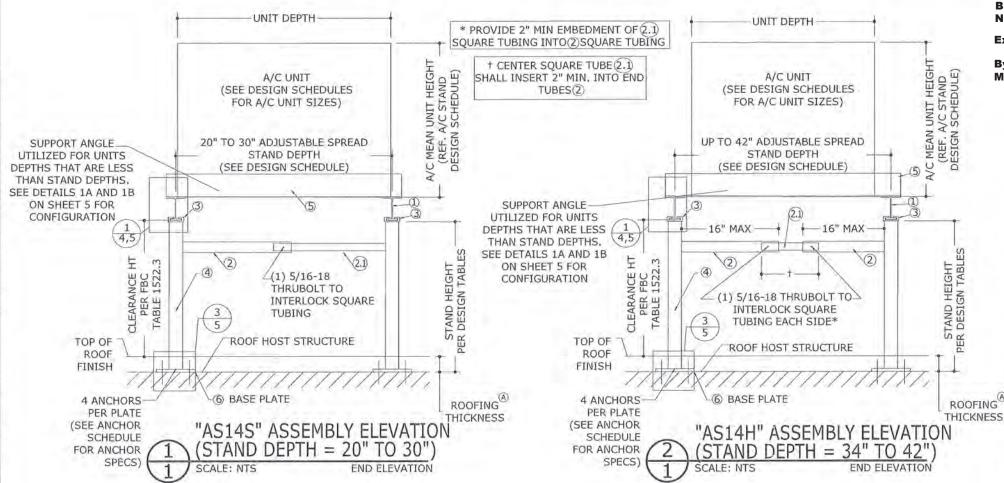
1. Notice of Acceptance No. **20-1013.03**, issued to Miami Tech, Inc., for their **Aluminum A/C Stand**, approved on 12/31/2020 and expiring on 01/15/2024.

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Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-0319.03
Expiration Date: September 05, 2029

Approval Date: September 05, 2029

ALUMINUM STANDS FOR MECHANICAL UNITS (AS14



A/C UNIT WIDTH

SIMILAR

"CUSTOM" ASSEMBLY NOTE: SEE SHEET 3 FOR CUSTOM ASSEMBLY ELEVATION WITH CROSS BRACING AND LIMITATIONS

AROOFING FINISH THICKNESS SHALL BE ACCOUNTED FOR BY CONTRACTOR WHEN DETERMINING REQUIRED STAND HEIGHT IN ACCORDANCE WITH THE FBC OR THE LOCAL JURISDICTION

> REQUIRED STAND DEPTH SHALL BE DETERMINED BY CONTRACTOR

75# MIN./450 # MAX UNIT WEIGHT AS VERIFIED BY OTHERS, TYP. FOR LARGER/HEAVIER UNITS, SEE "CUSTOM" ASSEMBLE ON SHEET 3

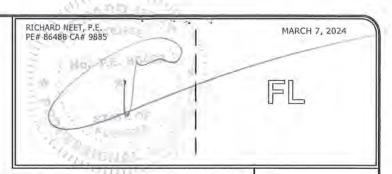
NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION.
THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA**ONLY, USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT, CONTACT THIS OFFICE AT ENGINEERINGEXPRESS.COM/QUOTE FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

PRODUCT REVISED as complying with the Florida Building Code 24-0319.03 NOA-No.

Expiration Date 09/05/2029

00 Miami-Dade Product Control



MAXIMUM ALLOWABLE DESIGN PRESSURES:

AS NOTED IN DESIGN SCHEDULES

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 7-22 AND THE FLORIDA BUILDING CODE SEVENTH EDITION (2023) 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 PROVISIONS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND THE ALUMINUM DESIGN MANUAL (ADM 2020).
- 2. MAXIMUM DIMENSIONS AND WEIGHT OF A/C UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN, MINIMUM 75LB OR MAXIMUM AS LISTED
- 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 #10 OR GREATER SAE GRADE 5, UNLESS NOTED OTHERWISE, CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH CHAPTER J, SPECIFICATIONS FOR ALUM. STRUCTURES -SECTION 1, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES. PROVIDE (3) PITCHES MIN PAST THREAD PLANE.
- ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6061-T6 OR
- ALL 22GA DEFORMED STEEL STRAPS USED FOR UNIT TIE-DOWNS SHALL BE Fy = 36KSI MIN, STEEL, FABRICATION OF STEEL STRAPS SHALL BE BY STRAP MANUFACTURER ONLY.
- ALL EXISTING CONCRETE SUBSTRATE SHALL HAVE MINIMUM I'C COMPRESSIVE STRENGTH OF 3000 PSI AS VERIFIED BY OTHERS, U.N.O.
- ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH FBC SECTION 2003,8.1 WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL, TABLE J.2.1. 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 %" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 11. 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.
- 12. 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.
- 13. 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 CONJUNCTIO WITH THIS DOCUMENT.
- 14. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- 15, AC STANDS SHALL LABELED PER MIAMI-DADE REQUIREMENTS FOR NON-MANDATORY PRODUCT APPROVALS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.

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23-61608

SCALE: NTS UNLESS NOTED



A/C UNIT DEPTH-

A/C UNIT HEIGHT

CONFIGURATION

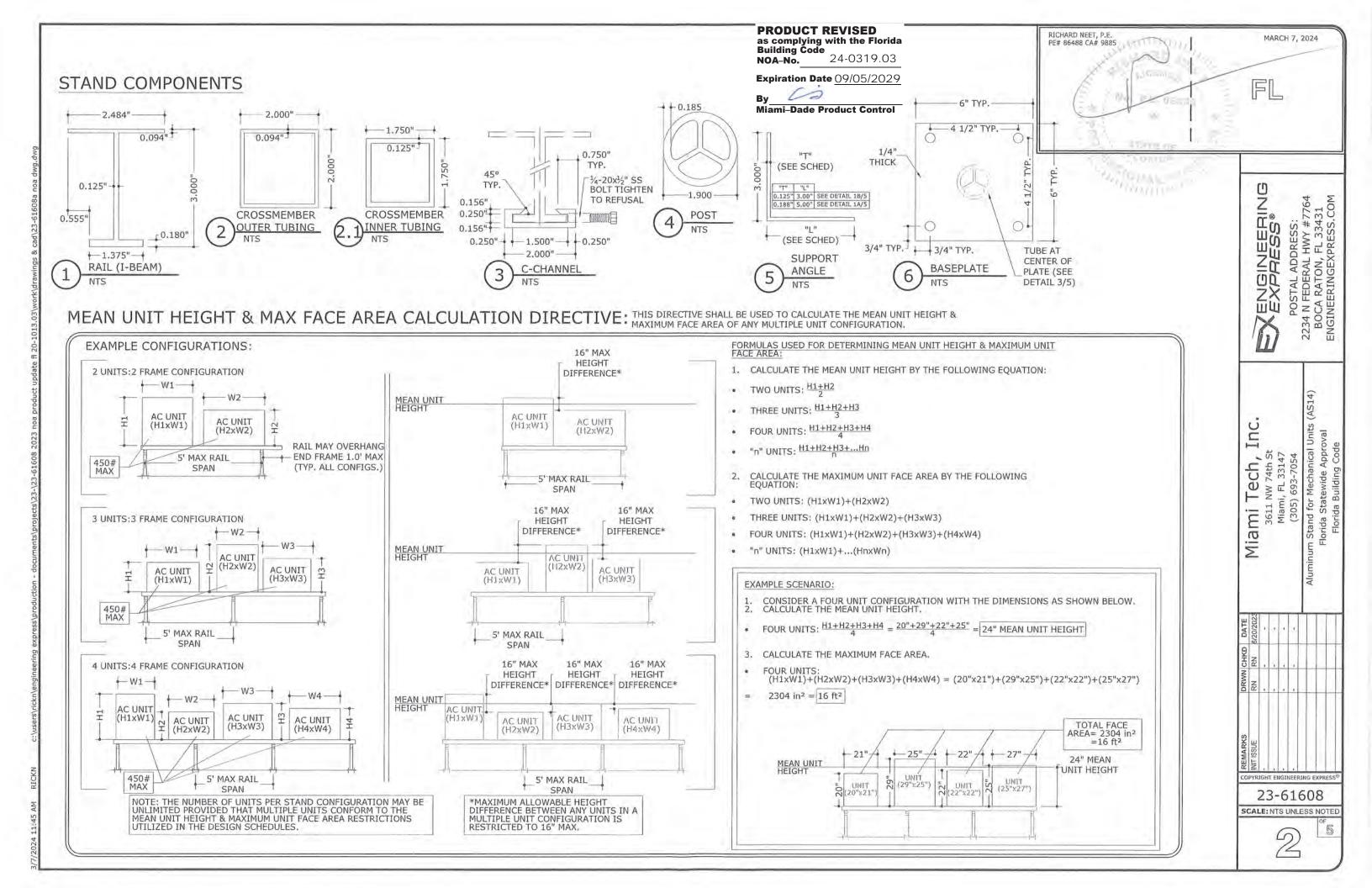
DETAILS

STAND WIDTH

DETAILS

& LEG SPACING PER

CONFIGURATION



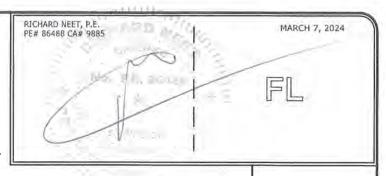
ALUMINUM STAND DESIGN SCHEDULE

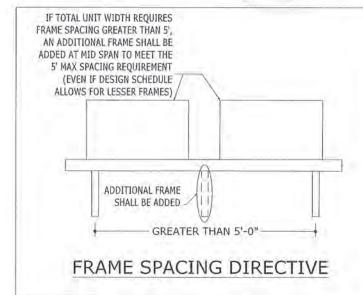
MAX UNIT	MAX FACE AREA	MAX POST	2 FRA	MES	3 FRA	MES	4 FRA	AMES	5 FRA	MES	6 FRA	AMES	7 FRA	AMES	8 FRA	AMES	9 FR	AMES	10 FR	RAMES
HEIGHT	MAX FACE AREA	HEIGHT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT												
		18 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps												
24.0 in	576.0 in ² (= 4.0 sqft)	24 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps												
		30 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps												
		18 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps												
30,0 in	900.0 in ² (= 6.3 sqft)	24 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps												
		30 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps												
		18 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps												
36.0 in	1008.0 in ² (= 7.0 sqft)	24 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 p												
		30 in	179 psf	142 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps										
		18 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps												
36.0 in	1152.0 in ² (= 8.0 sqft)	24 in	188 psf	148 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps										
		30 in	157 psf	124 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps										
		18 in	191 psf	151 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps										
36.0 in	1440.0 in2 (= 10.0 sqft)	24 in	150 psf	119 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps										
		30 in	125 psf	99 psf	188 psf	149 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps								
		18 in	159 psf	126 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps										
36.0 in	1728.0 in2 (= 12.0 sqft)	24 in	125 psf	99 psf	188 psf	148 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps								
		30 in	105 psf	83 psf	157 psf	124 pst	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps								
1000		18 in	128 psf	101 psf	191 psf	151 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps								
36.0 in	2160.0 in2 (= 15.0 sqft)	24 in	100 psf	79 psf	150 psf	119 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps								
		30 in	84 psf	66 psf	125 psf	99 psf	167 psf	132 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps						
		18 in	86 psf	68 psf	129 psf	102 psf	172 psf	136 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps						
40.0 in	3200.0 in2 (= 22.2 sqft)	24 in	68 psf	53 psf	101 psf	80 psf	135 psf	107 psf	169 psf	133 psf	200 psf	158 psf	200 psf	158 psf	200 psf	1.58 psf	200 psf	158 psf	200 psf	158 ps
	100000000000000000000000000000000000000	30 in	56 psf	45 psf	85 psf	67 psf	113 psf	89 psf	141 psf	111 psf	169 psf	134 psf	198 psf	156 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps
		18 in	72 psf	57 psf	108 psf	85 psf	143 psf	113 psf	179 psf	142 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps
48.0 in	3840.0 in ² (= 26.7 sqft)	24 in	56 psf	44 psf	84 psf	67 psf	113 psf	89 psf	141 psf	111 psf	169 psf	133 psf	197 psf	156 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps
		30 in	47 psf	37 psf	71 psf	56 psf	94 psf	74 psf	118 psf	93 psf	141 psf	111 psf	165 psf	130 psf	188 psf	149 psf	200 psf	158 psf	200 psf	158 ps
		18 in	57 psf	45 psf	86 psf	68 psf	115 psf	91 psf	143 psf	113 psf	172 psf	136 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 ps
48.0 in	4800.0 in ² (= 33.3 sqft)	24 in	45 psf	36 psf	68 psf	53 psf	90 psf	71 psf	113 psf	89 psf	135 psf	107 psf	158 psf	124 psf	180 psf	142 psf	200 psf	158 psf	200 psf	158 ps
		30 in	38 psf	30 psf	56 psf	45 psf	75 psf	59 psf	94 psf	74 psf	113 psf	89 psf	132 psf	104 psf	151 psf	119 psf	169 psf	134 psf	188 psf	149 ps
		18 in	38 psf	30 psf	57 psf	45 psf	77 psf	60 psf	96 psf	76 psf	115 psf	91 psf	134 psf	106 psf	153 psf	121 psf	172 psf	136 psf	191 psf	151 ps
60.0 in	7200.0 in ² (= 50.0 sqft)	24 in	30 psf	24 psf	45 psf	36 psf	60 psf	47 psf	75 psf	59 psf	90 psf	71 psf	105 psf	83 psf	120 psf	95 psf	135 psf	107 psf	150 psf	119 ps
	The state of the s	30 in	25 psf	20 psf	38 psf	30 psf	50 psf	40 psf	63 psf	50 psf	75 psf	59 psf	88 psf	69 psf	100 psf	79 psf	113 psf	89 psf	125 psf	99 ps
		18 in	32 psf	25 psf	48 psf	38 psf	64 psf	50 psf	80 psf	63 psf	96 psf	76 psf	112 psf	88 psf	128 psf	101 psf	143 psf	113 psf	159 psf	126 ps
60.0 in	8540.0 in ² (= 50.0 sqft)	24 in	25 psf	20 psf	38 psf	30 psf	50 psf	40 psf	63 psf	49 psf	75 psf	59 psf	88 psf	69 psf	100 psf	79 psf	113 psf	89 psf	125 psf	99 psf
		30 in	21 psf	17 psf	31 psf	25 psf	42 psf	33 psf	52 psf	41 psf	63 psf	50 psf	73 psf	58 psf	84 psf	66 psf	94 psf	74 psf	105 psf	83 psf

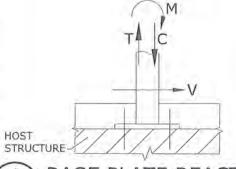
PRODUCT REVISED as complying with the Florida Building Code 24-0319.03 NOA-No.

Expiration Date 09/05/2029

Miami-Dade Product Control



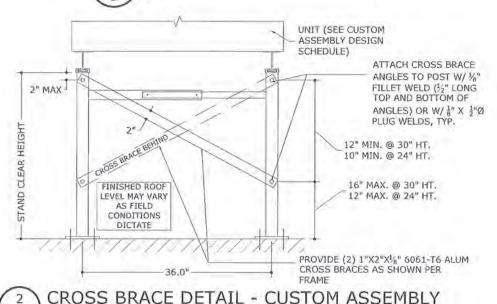




ENGINEER OF RECORD TO VERIFY THAT THE HOST STRUCTURE CAN SUPPORT THE SERVICE LOAD REACTIONS LISTED BELOW:

M = 5 KIP-INV = 0.5 KIPST = C = 0.8 KIPS

BASE PLATE REACTIONS



Ĭ Miami Tech,



23-61608

SCALE: NTS UNLESS NOTE

REQUIRED DESIGN PRESSURES FOR INSTALLATION SHALL BE CALCULATED ON A SITE SPECIFIC BASIS AND BE LESS THAN OR EQUAL TO THE MAX ALLOWABLE PRESSURES LISTED IN THIS DRAWING, INTERPOLATION BETWEEN UNIT HEIGHTS, FACE AREA OR POST HEIGHT IS NOT PERMITTED.

REFERENCE STAND DETAILS HEREIN FOR STAND COMPONENTS AND INSTALLATION OPTIONS. SEE TIEDOWN DIRECTIVE FOR UNIT TIEDOWN REQUIREMENTS AND LIMITATIONS.

MAXIMUM FRAME-TO-FRAME SPACING SHALL NOT EXCEED 5'-0" O.C. (SEE FRAME SPACING DIRECTIVE)

THE UNIT DEPTH SHALL NOT EXCEED THE MAX UNIT HEIGHT LISTED. SEE THE TIEDOWN STRAP SCHEDULE FOR MINIMUM ALLOWABLE UNIT DEPTHS.

A "FRAME" CONSISTS OF (2) POSTS CONNECTED WITH (1) CROSS MEMBER, FOR EXAMPLE, A "2 FRAME" STAND WILL HAVE 4 POSTS TOTAL

UNIT OR STAND DIMENSIONS OUTSIDE THE PARAMETERS LISTED IN THIS SCHEDULE WILL REQUIRE SEPARATE SITE SPECIFIC ENGINEERING.

"CUSTOM ASSEMBLY" DESIGN SCHEDULE)

			Carlo Carlo	(1) UNITS TO	(3) FRAMES	(2) UNITS TO	(4) FRAMES	(3) UNITS TO (5) FRAMES		
MAX UNIT WIDTH	MAX UNIT DEPTH	MAX UNIT HEIGHT	STAND CLEAR HEIGHT	MAX ALLOWABLE LATERAL LOAD	MAX ALLOWABLE UPLIFT	MAX ALLOWABLE LATERAL LOAD	MAX ALLOWABLE UPLIFT	MAX ALLOWABLE LATERAL LOAD	MAX ALLOWABLE UPLIFT	
TO 11	mm 11	20.00	24 "	94.5 PSF	74.6 PSF	63.0 PSF	49.7 PSF	52,5 PSF	41.4 PSF	
50 "	38 "	74"	30 "	79.5 PSF	62.8 PSF	53.0 PSF	41.8 PSF	44.3 PSF	35.0 PSF	

DESIGN SCHEDULE NOTES

- MAXIMUM FRAME-TO-FRAME SPACING SHALL NOT EXCEED 4'-0" O.C. (SEE FRAME SPACING DIRECTIVE)
- ALLOWABLE STAND DEPTH SHALL BE 20" MINIMUM UP TO 42" MAXIMUM.

ALLOWABLE STAND DEPTH SHALL BE 20" MINIMUM UP TO 42" MAXIMUM.

- A "FRAME" CONSISTS OF (2) POSTS CONNECTED WITH (1) CROSS MEMBER AND (2) CROSS BRACES, FOR EXAMPLE, A "2 FRAME" STAND WILL HAVE 4 POSTS TOTAL.
- REFERENCE STAND DETAILS HEREIN FOR STAND COMPONENTS AND INSTALLATION OPTIONS.
- SEE TIEDOWN DIRECTIVE FOR UNIT TIEDOWN REQUIREMENTS AND LIMITATIONS. UNIT SIZES THAT EXCEED THE MAX DIMENSIONS LISTED IN THE TIEDOWN/STRAF SCHEDULE REQUIRE SITE SPECIFIC TIEDOWN CERTIFICATION
- UNIT OR STAND DIMENSIONS OUTSIDE THE PARAMETERS LISTED IN THIS SCHEDULE WILL REQUIRE SEPARATE SITE SPECIFIC ENGINEERING
- REQUIRED DESIGN PRESSURES FOR INSTALLATION SHALL BE CALCULATED ON A SITE SPECIFIC BASIS AND BE LESS THAN OR EQUAL TO THE MAX ALLOWABLE PRESSURES
- INTERPOLATION BETWEEN UNIT HEIGHTS, FACE AREA OR POST HEIGHT IS NOT PERMITTED.
- EACH FRAME (POST PAIR) SHALL UTILIZE THE CROSS BRACING PER THE DETAIL ON THIS SHEET,
- 10. EACH STAND SHALL UTILIZE (3) SUPPORT ANGLES PER UNIT (SEE DETAIL 1/5 OF THIS DRAWING) EQUALLY SPACED ALONG LENGTH OF STAND (12" MINIMUM FROM ENDS OF

FRAME ASSEMBLY DETAIL

TIEDOWN STRAP SCHEDULE

MAX UNIT HEIGHT (in)	MIN UNIT DEPTH (in)	MAX LATERAL PRESSURE (psf)	NO. OF STRAPS REQUIRED (PER UNIT)
		UPTO 80	0
	12-19	UP TO 120	0
Unitona		UPTO 200	2
UP TO 24		UP TO 80	0
	20	UP TO 120	0
		UP TO 200	0
		UP TO 80	0
	12-19	UP TO 120	2
UPTO 30		UP TO 200	2
UP 10 30		UPTO 80	0
	20	UP TO 120	0
		UPTO 200	0
	12-19	UPTO 80	0
		UP TO 120	2
UDTORE		UP TO 200	3
UPTO 36	20	UP TO 80	0
		UPTO 120	0
		UP TO 200	2
	14-23	UP TO 80	0
		UP TO 120	2
United to		UP TO 200	3
UPTO 40		UPTO 80	0
	24	UP TO 120	2
		UP TO 200	3
		UP TO 80	3
	16-23	UP TO 120	4
UPTO 48		UP TO 200	5
UP 10 48	24	UP TO 80	0
		UP TO 120	2
		UP TO 200	4
	1.	UP TO 80	4
	16-23	UP TO 120	5
HIDTOEA		UP TO 200	6
UPTO 54	1. 1	UPTO 80	2
	24	UP TO 120	3
		UP TO 200	5

TIEDOWN SCHEDULE NOTES:

THE TIEDOWN CLIP AND STRAP REQUIREMENTS ON THIS SHEET DO NOT ACCOUNT FOR INTEGRATED FEET OR RAILS ON THE MECHANICAL UNITS, IF INTEGRATED TIEDOWN FEET OR RAILS EXIST ON THE UNIT, SEPARATE ENGINEERING IS REQUIRED.

THE TIEDOWN REQUIREMENTS ON THIS SHEET ACCOUNT FOR RECTANGULAR SHAPED UNITS ONLY. CIRCULAR OR OTHER SHAPED MECHANICAL EQUIPMENT (FANS, DUCTWORK, PIPES, ETC.) SHALL BE CERTIFIED SEPARATELY.

THIS DETAIL IS APPLICABLE FOR UNITS UP TO 54" TALL MAX, UNITS TALLER THAN 54" REQUIRE SITE SPECIFIC OR SEPARATE TIEDOWN ENGINEERING 22 GA (0.0299" MIN., Fu=58KSI MIN.) STEEL A/C HOUSING UNIT MAX I-BEAM (1)

OR 'CAB'

ANGLE

(2) 1" WIDE x 14GA (0.070") OR x 12GA (0.105") ASTM A-653 GRADE 33 GALV STEEL ANGLE (CUTD-1 BY MIAMI TECH). UTILIZE (2) MIN, PER CORNER (8 TOTAL). NOTE: IF UNIT MANUFACTURER HAS SEPARATE APPROVED TIEDOWN ENGINEERING IT MAY BE USED IN LIEU OF THIS DIRECTIVE.

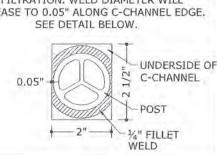
FASTEN CLIP VERTICAL LEG TO 22 GA (0.0299" MIN.) STEEL HOUSING WITH (5) #10 SAE GRADE 2 MIN. SHEET METAL SCREWS PER CLIP, FASTEN CLIP HORIZONTAL LEG TO I-BEAM RAIL WITH (1) 1/4"Ø SAE GRADE 2 MIN, THRU BOLT CENTERED ABOUT

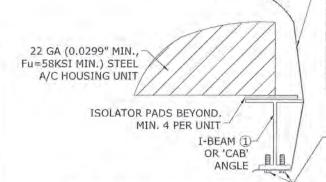
ISOLATOR PADS BEYOND (BY OTHERS), MIN, 4 PER UNIT

C UNIT TIE-DOWN DETAIL

(SEE TIEDOWN STRAP SCHED, FOR STRAP REQUIREMENTS)

*C-CHANNEL TO POST WELD NOTE: IN AREAS WHERE 1/4" WELD DIAMETER CANNOT BE ACHIEVED, CONTINUE WELD AROUND FULL PERIMETER OF POST TO PREVENT WATER INFILTRATION, WELD DIAMETER WILL DECREASE TO 0.05" ALONG C-CHANNEL EDGE. SEE DETAIL BELOW. UNDERSIDE OF





NOTE: UNIT TIEDOWN DETAILS MAY ALSO BE USED TO ANCHOR THE UNIT TO THE SUPPORT ANGLE SHOWN ON NEXT SHEET (I.E. I-BEAM CAN BE SUBSTITUTED WITH ANGLE SUPPORT AS BASE MATERIAL)

RICHARD NEET, P.E.

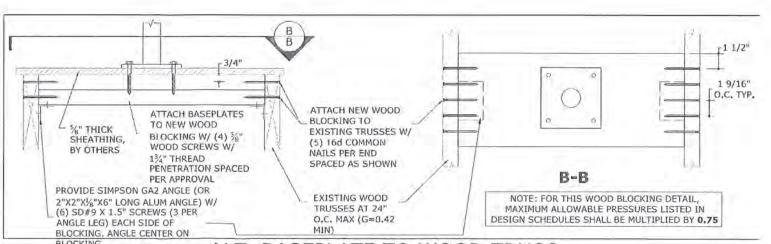
PE# 86488 CA# 9885

1"x 22ga CONTINUOUS GALV, STEEL STRAP (Fy = 36 KSI MIN.) SHALL PASS OVER UNIT TO I-BEAM ON OPPOSITE SIDE TIGHTENED SNUG AGAINST UNIT, STRAPS SHALL BE SPACED SYMMETRICALLY OVER UNITS NO CLOSER THAN 2" FROM UNIT EDGES, TYP.

SEE TIEDOWN STRAP SCHEDULE FOR REQUIRED NUMBER OF STRAPS PER UNIT

(2) #14 SAE GR 2 MIN, SMS WITH WASHERS AT EACH STRAP END TO UNDERSIDE OF I-BEAM OR SIDE OF 'CAB' ANGLE

TIE-DOWN STRAP DETAIL** *SHALL BE USED IN COMBINATION WITH ANY A/C UNIT TIE-DOWN DETAIL ON THIS SHEET



ALT. BASEPLATE TO WOOD TRUSS ATTACHMENT (2X10 WOOD BLOCKING)

WOOD (G=0.55 MIN.)

PRODUCT REVISED as complying with the Florida Building Code 24-0319.03 NOA-No.

Expiration Date 09/05/2029

Miami-Dade Product Control

ENGINEERIN EXPRESS®

MARCH 7, 2024

POSTAL ADDRESS: 2234 N FEDERAL HWY #7764 BOCA RATON, FL 33431 ENGINEERINGEXPRESS.COM

Inc

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SCALE: NTS UNLESS NOTED



