

A/C UNIT WIDTH

"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.

VISIT ECALC.IO/61587

FOR SITE-SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS OR CODE

VISIT ENGINEERINGEXPRESS.COM/STORE FOR ADDITIONAL PLANS, REPORTS & RESOURCES





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
- 3. 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
- 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 f'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 1/8" THROAT FULL
- PERIMETER FILLET WELD UNLESS OTHERWISE NOTED. 10. 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 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 CONJUNCTION 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.

FL24546.1

219

POSTAL ADDRESS: 401 W. ATLANTIC AVE R10 BOX DELRAY BEACH, FL 33444 ENGINEERINGEXPRESS.COM

Aluminum Stand for Mechanical Florida Statewide Approval Florida Building Code **Tech,** I ww 74th St ni, FL 33147

iami

23-61587 SCALE: NTS UNLESS NOTED

A/C UNIT DEPTH

A/C UNIT HEIGHT

CONFIGURATION

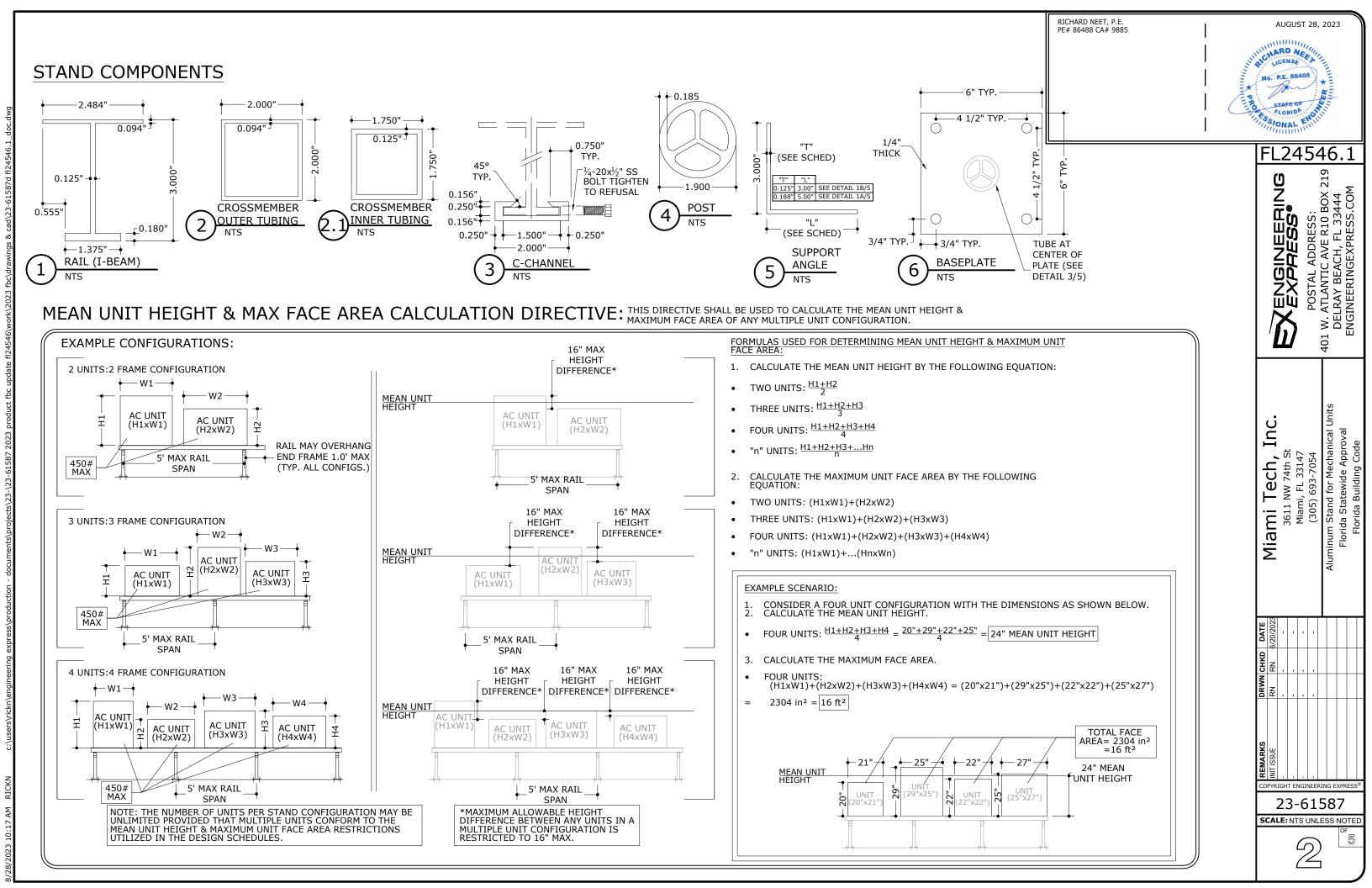
DETAILS

STAND WIDTH

DETAILS

& LEG SPACING PER

CONFIGURATION



ALUMINUM STAND DESIGN SCHEDULE

MAX UNIT																					
		CE ADEA	MAX POST	2 FRA	MES	3 FRA	MES	4 FRA	MES	5 FRA	AMES	6 FRA	AMES	7 FRA	MES	8 FRA	AMES	9 FR	AMES	10 FR	RAMES
HEIGHT	HEIGHT MAX FACE AREA		HEIGHT	LATERAL	UPLIFT																
			18 in	200 psf	158 psf																
24.0 in	576.0 in ²	(= 4.0 sqft)	24 in	200 psf	158 psf																
			30 in	200 psf	158 psf																
			18 in	200 psf	158 psf																
30.0 in	900.0 in ²	(= 6.3 sqft)	24 in	200 psf	158 psf																
			30 in	200 psf	158 psf																
			18 in	200 psf	158 psf																
36.0 in	1008.0 in ²	(= 7.0 sqft)	24 in	200 psf	158 psf																
			30 in	179 psf	142 psf	200 psf	158 psf														
			18 in	200 psf	158 psf																
36.0 in	1152.0 in ²	(= 8.0 sqft)	24 in	188 psf	148 psf	200 psf	158 psf														
			30 in	157 psf	124 psf	200 psf	158 psf														
			18 in	191 psf	151 psf	200 psf	158 psf														
36.0 in	1440.0 in ²	(= 10.0 sqft)	24 in	150 psf	119 psf	200 psf	158 psf														
			30 in	125 psf	99 psf	188 psf	149 psf	200 psf	158 psf												
			18 in	159 psf	126 psf	200 psf	158 psf														
36.0 in	1728.0 in ²	(= 12.0 sqft)	24 in	125 psf	99 psf	188 psf	148 psf	200 psf	158 psf												
			30 in	105 psf	83 psf	157 psf	124 psf	200 psf	158 psf												
			18 in	128 psf	101 psf	191 psf	151 psf	200 psf	158 psf												
36.0 in	2160.0 in ²	(= 15.0 sqft)	24 in	100 psf	79 psf	150 psf	119 psf	200 psf	158 psf												
			30 in	84 psf	66 psf	125 psf	99 psf	167 psf	132 psf	200 psf	158 psf										
			18 in	86 psf	68 psf	129 psf	102 psf	172 psf	136 psf	200 psf	158 psf										
40.0 in	3200.0 in ²	in ² (= 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								
			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 psf
			18 in	72 psf	57 psf	108 psf	85 psf	143 psf	113 psf	179 psf	142 psf	200 psf	158 psf								
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 psf
			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 psf
			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						
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 psf
			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 psf
		in² (= 50.0 sqft)	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 psf
60.0 in 7200.0 in ²	7200.0 in ²		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 psf
			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 psf
			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 psf
60.0 in	8640.0 in ²	(= 60.0 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
	DESIGN SCHEDULE NOTES:		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

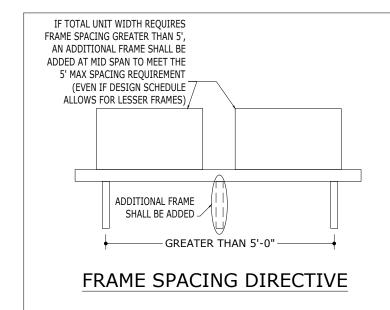
- MAXIMUM FRAME-TO-FRAME SPACING SHALL NOT EXCEED 5'-0" O.C. (SEE FRAME SPACING DIRECTIVE)
- ALLOWABLE STAND DEPTH SHALL BE 20" MINIMUM UP TO 42" MAXIMUM.
- A "FRAME" CONSISTS OF (2) POSTS CONNECTED WITH (1) CROSS MEMBER. FOR EXAMPLE, A "2 FRAME" STAND WILL HAVE 4 POSTS TOTAL.
- REFERENCE STAND DETAILS HEREIN FOR STAND COMPONENTS AND INSTALLATION OPTIONS.
- SEE TIEDOWN DIRECTIVE FOR UNIT TIEDOWN REQUIREMENTS AND LIMITATIONS.
- UNIT 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 LISTED IN THIS DRAWING.
- INTERPOLATION BETWEEN UNIT HEIGHTS, FACE AREA OR POST HEIGHT IS NOT PERMITTED.
- THE UNIT DEPTH SHALL NOT EXCEED THE MAX UNIT HEIGHT LISTED. SEE THE TIEDOWN STRAP SCHEDULE FOR MINIMUM ALLOWABLE UNIT DEPTHS

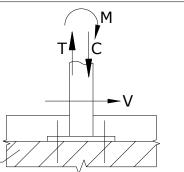
"CUSTOM ASSEMBLY" DESIGN SCHEDULE)

		MAX	STAND CLEAR HEIGHT	(1) UNITS TO	(3) FRAMES	(2) UNITS TO	0 (4) FRAMES	(3) UNITS TO (5) FRAMES		
UNIT WIDTH				MAX ALLOWABLE LATERAL LOAD	MAX ALLOWABLE UPLIFT	MAX ALLOWABLE LATERAL LOAD	MAX ALLOWABLE UPLIFT	MAX ALLOWABLE LATERAL LOAD	MAX ALLOWABLE UPLIFT	
50 " 38 "		74 ''	24 "	94.5 PSF	74.6 PSF	63.0 PSF	63.0 PSF 49.7 PSF		41.4 PSF	
50	30	74	30 "	79.5 PSF	62.8 PSF	53.0 PSF	41.8 PSF	44.3 PSF	35.0 PSF	

- 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.
- 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/STRAP
- 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
- 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

RICHARD NEET, P.E. AUGUST 28, 2023 PE# 86488 CA# 9885

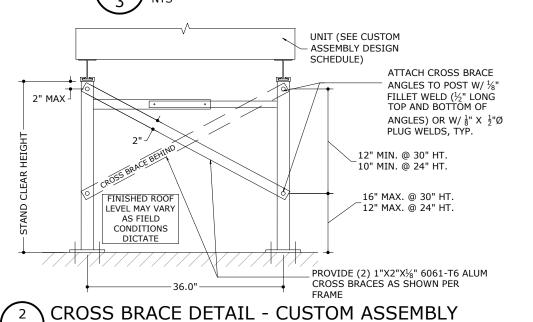




ENGINEER OF RECORD TO VERIFY THAT THE HOST STRUCTURE CAN SUPPORT THE SERVICE LOAD **REACTIONS LISTED BELOW:**

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

BASE PLATE REACTIONS



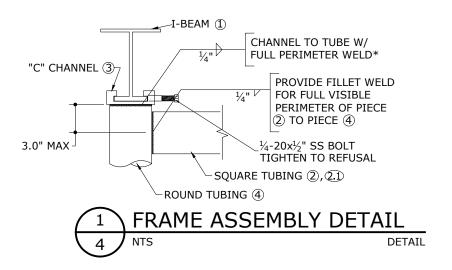
FL24546.1

Aluminum Stand for Mechanical Florida Statewide Approval Florida Building Code mi Tech, I 3611 NW 74th St Miami, FL 33147

Miami

23-61587 SCALE: NTS UNLESS NOTE

FRAME ASSEMBLY & UNIT TIE-DOWN DETAILS:



TIEDOWN STRAP SCHEDULE

MAX UNIT HEIGHT (in) MIN UNIT DEPTH (in) MAX LATERAL PRESSURE (psf) NO. OF STRAPS REQUIRED (PER UNIT) UP TO 24 12-19 UP TO 80 0 UP TO 200 2 0 UP TO 200 2 0 UP TO 200 2 0 UP TO 200 0 0 UP TO 200 0 0 UP TO 200 0 0 UP TO 200 2 0 UP TO 80 0 0 UP TO 200 2 0 UP TO 80 0 0 UP TO 200 3 0 UP TO 200 2 0 UP TO 200 2 0 UP TO 200 3 0 UP TO 200 3 <td< th=""><th></th><th></th><th></th><th></th></td<>						
HEIGHT (in) DEPTH (in) PRESSURE (psf) REQUIRED (PER UNIT) UP TO 80	MAYLINIT	MINITINIT	MAYLATERAL	NO. OF STRAPS		
UP TO 24 12-19 UP TO 80 UP TO 200 UP TO 80 0 UP TO 80 0 UP TO 80 0 UP TO 80 0 UP TO 200 UP TO 200 UP TO 80 0 UP TO 80 2 UP TO 80 0 UP TO 200 UP TO 80 12-19 UP TO 80 12-19 UP TO 120 UP TO 80 12-19 UP TO 80 12-19 UP TO 80 12-19 UP TO 80 14-19 UP TO 80 14-10 UP TO 80 14-10 UP TO 80				REQUIRED (PER		
UPTO 24 UPTO 200 UPTO 200 UPTO 80 0 UPTO 120 UPTO 80 0 UPTO 200 UPTO 200 UPTO 80 12-19 UPTO 80 12-19 UPTO 80 12-19 UPTO 80 20 UPTO 80 12-19 UPTO 80 UPTO 80 12-19 UPTO 80 0 UPTO 80 0 UPTO 80 14-23 UPTO 80 14-24 UPTO 120 2 UPTO 80 3 UPTO 80 3 UPTO 80 3 UPTO 80 4 UPTO 80 16-23 UPTO 80 16-24 UPTO 80 16-25 UPTO 80 16-26 UPTO 80 16-27 UPTO 80 16-28 UPTO 80 UPTO 80	neiGhi (iii)	DEPTH (III)	PRESSURE (psi)	UNIT)		
UP TO 24 20			UP TO 80	0		
UP TO 24 20		12-19	UP TO 120	0		
UP TO 80 0 0 UP TO 120 0 0 UP TO 200 0 0 UP TO 80 0 0 UP TO 80 0 0 12-19 UP TO 120 2 UP TO 200 2 UP TO 80 0 0 UP TO 120 0 0 UP TO 120 0 0 UP TO 120 0 0 UP TO 200 0 3 UP TO 200 0 2 UP TO 200 0 2 UP TO 200 0 3 UP TO 200 0 2 UP TO 200 0 2 UP TO 200 0 3 UP TO 200 0 2 UP TO 200 0 3 UP TO 200 0 5 UP TO 200 0 6 UP TO 200 0 5 UP TO 200 0 6 UP TO 200 0 5 UP TO 200 0 6 UP TO 200 0 6 UP TO 200 0 6 UP TO 200 0 5	LID TO 24		UP TO 200	2		
UP TO 200 0 UP TO 80 0 UP TO 80 0 UP TO 200 2 UP TO 200 2 UP TO 80 0 UP TO 80 0 UP TO 80 0 UP TO 200 3 UP TO 200 3 UP TO 200 2 UP TO 200 3 UP TO 200 2 UP TO 200 3 UP TO 80 0 UP TO 200 2 UP TO 200 3 UP TO 80 0 UP TO 200 3 UP TO 80 0 UP TO 200 3 UP TO 80 0 UP TO 80 3 UP TO 80 3 UP TO 80 3 UP TO 80 4 UP TO 80 0 UP TO 80 4 UP TO 80 5 UP TO 80 5 UP TO 80 2 UP TO 80 2 UP TO 80 2 UP TO 80 2 UP TO 80 5	UF 10 24		UP TO 80	0		
UP TO 30 12-19 UP TO 120 UP TO 200 20 UP TO 120 UP TO 200 3 UP TO 200 20 UP TO 200 UP TO 200 20 UP TO 200 UP TO 200 20 UP TO 200 20 UP TO 200 30 UP TO 200 40 UP TO 200 50 UP TO 200 T		20	UP TO 120	0		
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UP TO 30 20			UP TO 80	0		
UP TO 30 20 UP TO 120 UP TO 200 UP TO 200 UP TO 80 0 UP TO 80 0 UP TO 200 UP TO 200 3 UP TO 200 3 UP TO 200 3 UP TO 200 UP TO 200 UP TO 200 2 UP TO 200 2 UP TO 200 2 UP TO 200 2 UP TO 200 3 UP TO 200 2 UP TO 200 3 UP TO 80 0 UP TO 80 0 UP TO 80 0 UP TO 80 0 UP TO 80 3 UP TO 80 3 UP TO 80 3 UP TO 80 4 UP TO 120 UP TO 80 0 UP TO 80 0 UP TO 80 16-23 UP TO 80 0 UP TO 80 16-23 UP TO 80 0 UP TO 80 16-23 UP TO 200 4 UP TO 80 UP TO 80 16-23 UP TO 200 4 UP TO 80 UP TO 80 4 UP TO 80 16-23 UP TO 80 4 UP TO 80 16-23 UP TO 80 16-23 UP TO 200 4 UP TO 80 16-23 UP TO 80 2 UP TO 80 2 UP TO 80 16-23 UP TO 200 5 UP TO 80 2 UP TO 80 2 UP TO 80 2 UP TO 80 3 UP TO 80 5 UP TO 80 4 UP TO 80 2 UP TO 80 5 UP TO 80 5 UP TO 200 6 UP TO 80 2 UP TO 80 2 UP TO 80 2 UP TO 80 3 UP TO 200 5 UP TO 80 2 UP TO 80 5 UP TO 80 2 UP TO 80 5 UP TO 80 6 UP TO 80 5 UP TO 80 6 UP TO 80 10 10 10 10 10 10 10 10 10		12-19	UP TO 120	2		
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UP TO 200 0 0	UP 10 30		UP TO 80	0		
UP TO 36 12-19 UP TO 120 UP TO 200 3 UP TO 80 0 UP TO 80 0 UP TO 200 UP TO 120 UP TO 200 2 UP TO 200 2 UP TO 200 2 UP TO 200 2 UP TO 200 3 UP TO 80 0 UP TO 80 0 UP TO 80 0 UP TO 80 3 UP TO 200 5 UP TO 200 4 UP TO 200 5 UP TO 80 0 UP TO 200 4 UP TO 80 2 UP TO 80 4 UP TO 80 2 UP TO 80 4 UP TO 200 5 UP TO 80 4 UP TO 200 5 UP TO 80 2 UP TO 200 5 UP TO 200 6 UP TO 200 5 UP TO 200 6 UP TO 200 5		20	UP TO 120	0		
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UP TO 80 0 0 UP TO 120 0 0 UP TO 200 2 UP TO 80 0 0 UP TO 80 0 0 14-23 UP TO 120 2 UP TO 200 3 UP TO 80 0 0 UP TO 200 3 UP TO 200 3 UP TO 200 3 UP TO 200 3 UP TO 200 5 UP TO 80 0 UP TO 80 0 UP TO 80 0 UP TO 120 4 UP TO 200 5 UP TO 80 0 UP TO 80 0 UP TO 80 0 UP TO 80 0 UP TO 80 4 UP TO 120 2 UP TO 200 4 UP TO 200 4 UP TO 80 5 UP TO 200 6 UP TO 80 5	LID TO 26		UP TO 200	3		
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UP TO 200 5	UP 10 34		UP TO 80	2		
		24	UP TO 120	3		
UP TO 60 SITE SPECIFIC DESIGN REQUIRED			UP TO 200	5		
	UP TO 60	SITE S	SPECIFIC DESIGN RE	QUIRED		

TIEDOWN SCHEDULE NOTES:

- 1. 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
- 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 I-BEAM (1)

(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 ÁBOUT

ISOLATOR PADS BEYOND (BY OTHERS). MIN. 4 PER

ANGLE 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 C-CHANNEL

1/4" FILLET

WELD

22 GA (0.0299" MIN., Fu=58KSI MIN.) STEEL A/C HOUSING UNIT ISOLATOR PADS BEYOND. MIN. 4 PER UNIT I-BEAM (1) OR 'CAB' **ANGLE**

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.

1"x 22ga CONTINUOUS GALV. STEEL STRAP (Fy = 36 KSI MIN.) SHALL PASS

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.

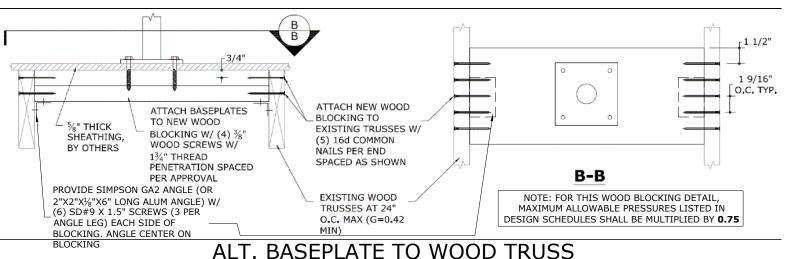
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SEE TIEDOWN STRAP SCHEDULE FOR REQUIRED NUMBER OF STRAPS PER UNIT

(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



ATTACHMENT (2X10 WOOD BLOCKING) SCALE: NTS WOOD (G=0.55 MIN.)

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FL24546.1

AUGUST 28, 2023

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SCALE: NTS UNLESS NOTED



