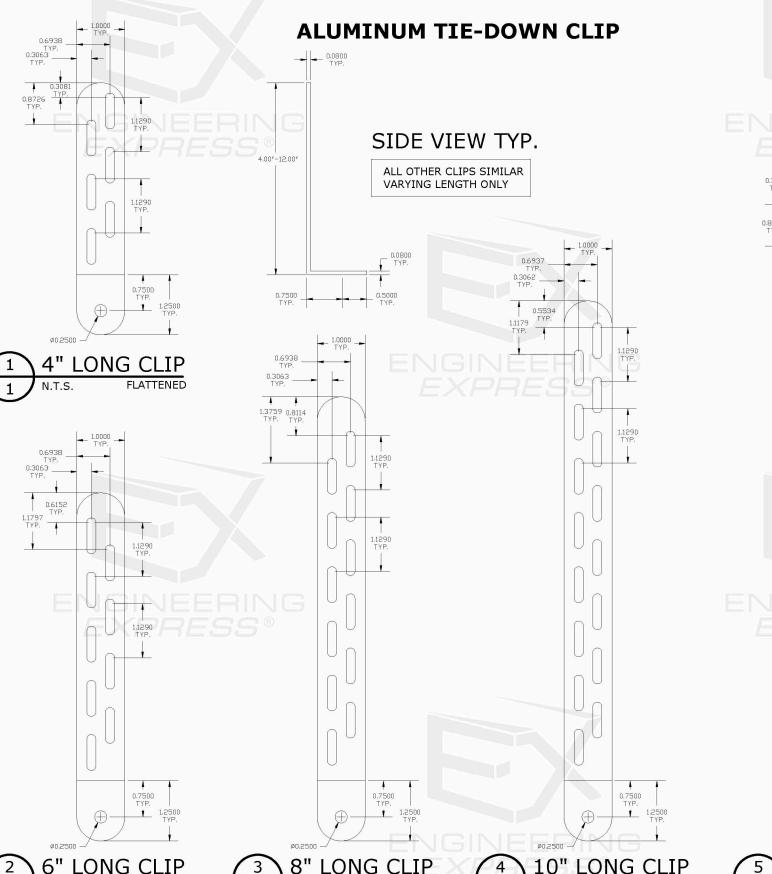
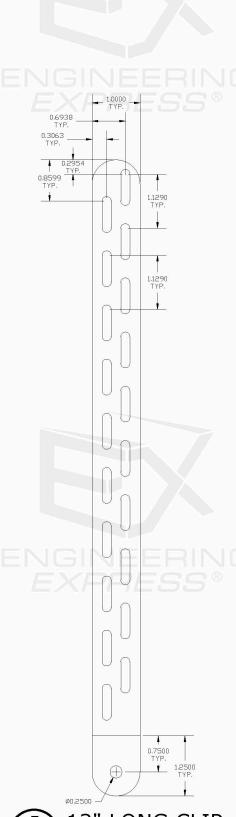
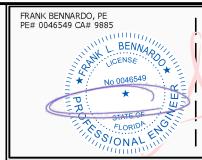
MIAMI TECH, INC.

MECHANICAL UNIT ALUMINUM TIE-DOWN CLIP: AT GRADE & ROOF-TOP MOUNTED APPLICATIONS

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.







Digitally signed by Frank Bennardo
Date: 2023.08.21
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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.

DESIGN NOTES:

- THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH ASCE 7-22 AND THE FLORIDA BUILDING CODE 8th EDITION (2023) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE AS INDICATED IN THE ACCOMPANYING DESIGN SCHEDULES. THE DESIGN CRITERIA USED TO CALCULATE THE ALLOWABLE ROOF-TOP HEIGHTS CONSIDERS FBC CHAPTER 16: (GC_f)_{Lateral}=1.90 WITHIN THE HVHZ & OUTSIDE THE HVHZ, (GC_f)_{Uplit}=1.5 FOR ALL LOCATIONS (CONCURRENT).

 ALL OTHER DESIGN VARIABLES ARE IN ACCORDANCE WITH ASCE 7 CHAPTERS 26 & 29.
- ALL OTHER DESIGN VARIABLES ARE IN ACCORDANCE WITH ASCE 7 CHAPTERS 26 & 29.THE HEIGHTS LISTED IN THE DESIGN SCHEDULES REPRESENT THE ALLOWABLE HEIGHT OF THE BUILDING.
- 4. THIS PRODUCT APPROVAL ALLOWS FOR EACH UNIT TO BE INSTALLED ON A MAXIMUM 30" TALL A/C STAND (CERTIFICATION BY OTHERS) ON TOP OF THE HEIGHTS LISTED IN THE DESIGN SCHEDULES.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
- DESIGN IS BASED ON CLIENT PROVIDED PRODUCT AND DIE SHEETS FROM TEST REPORT PROJECT #15-6206 BY FENESTRATION TESTING LABORATORY, INC.. NO SUBSTITUTIONS WITHOUT WRITTEN APPROVAL BY THIS ENGINEER SHALL BE PERMITTED.
- 7. ALL ALUMINUM TIE-DOWN CLIPS SHALL BE 0.080" 5052-H32 ALUMINUM WITH Fy=28 KSI OR BETTER.

GENERAL NOTES:

- THE REQUIREMENTS OF THE FLORIDA BUILDING CODE & ASCE 7. THIS PRODUCT MAY BE USED WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
- . MAXIMUM & MINIMUM DIMENSIONS AND MINIMUM WEIGHT OF MECHANICAL UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
- 3. FASTENERS TO BE #10 X ¾" OR GREATER STAINLESS STEEL 410 UNLESS NOTED OTHERWISE. ANCHORS REFERRED TO HEREIN SHALL BE ELCO BRAND, STAINLESS STEE ONLY, INSTALLED TO 3000 PSI MIN CONCRETE. SEE ANCHOR TO HOST SCHEDULE FOR ANCHOR REQUIREMENTS. ALL FASTENERS SHALL HAVE APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTROLYSIS.
- ALL CONCRETE SPECIFIED HEREIN IS NOT PART OF THIS CERTIFICATION. AS A MINIMUM, ALL CONCRETE SHALL BE STRUCTURAL CONCRETE 4" MIN. THICK AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 6. ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- 7. THE ADEQUACY OF ANY EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS SHALL BE VERIFIED BY THE ONSITE DESIGN PROFESSIONAL AND IS NOT INCLUDED IN THIS CERTIFICATION.EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- 8. 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.
- 9. WATER-TIGHTNESS OF EXISTING HOST SUBSTRATE SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR. CONTRACTOR SHALL ENSURE THAT ANY REMOVED OR ALTERED WATERPROOFING MEMBRANE IS RESTORED AFTER FABRICATION AND INSTALLATION OF STRUCTURE PROPOSED HEREIN. THIS ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY WATERPROOFING OR LEAKAGE ISSUES WHICH MAY OCCUR AS WATER-TIGHTNESS SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR.
- 10. FOR AN EXPLANATION OF EXPOSURE AND RISK CATEGORIES THAT ACCOMPANY THE Vult WIND SPEEDS USED IN THIS APPROVAL, SEE ASCE 7.

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

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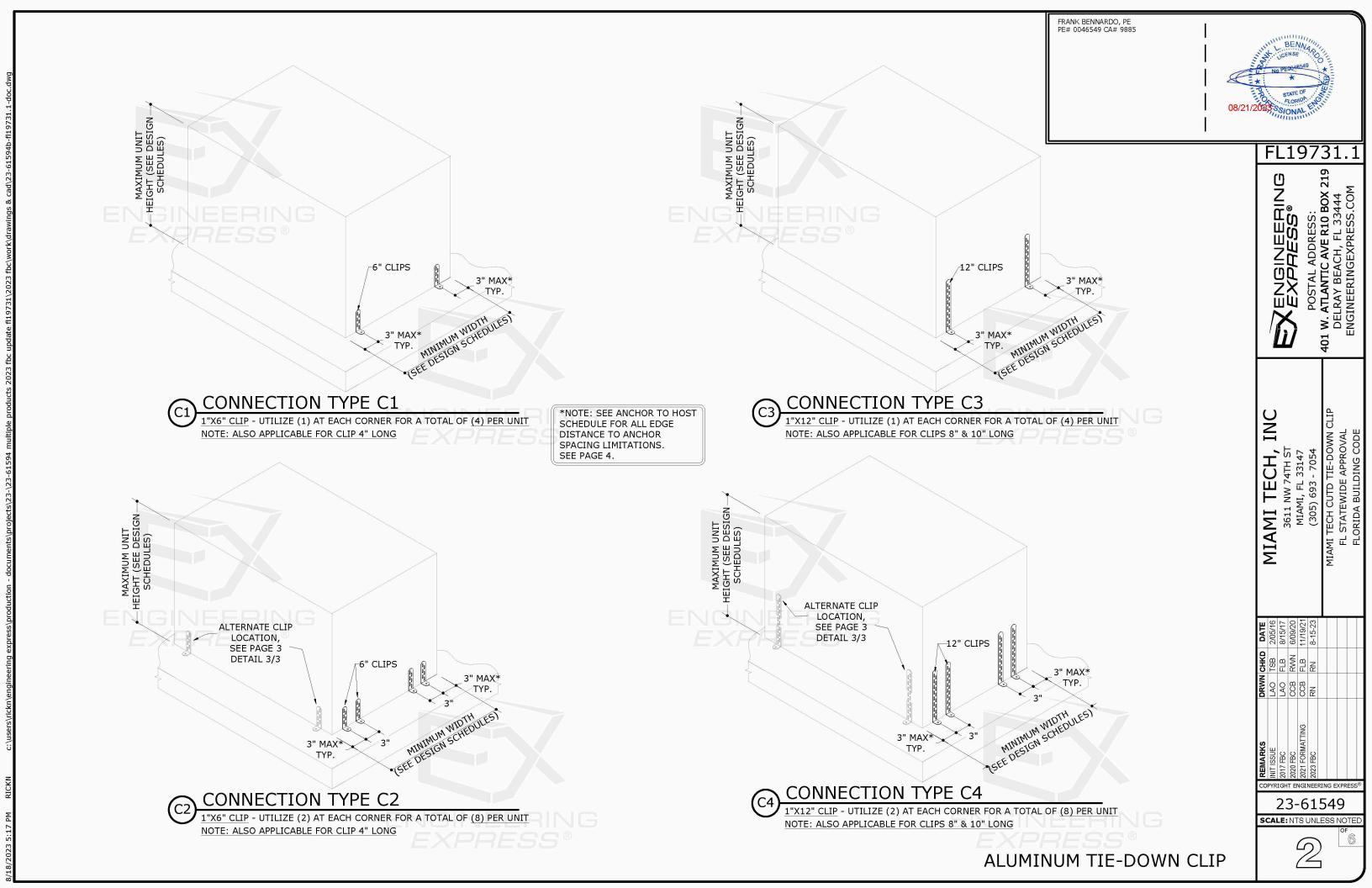
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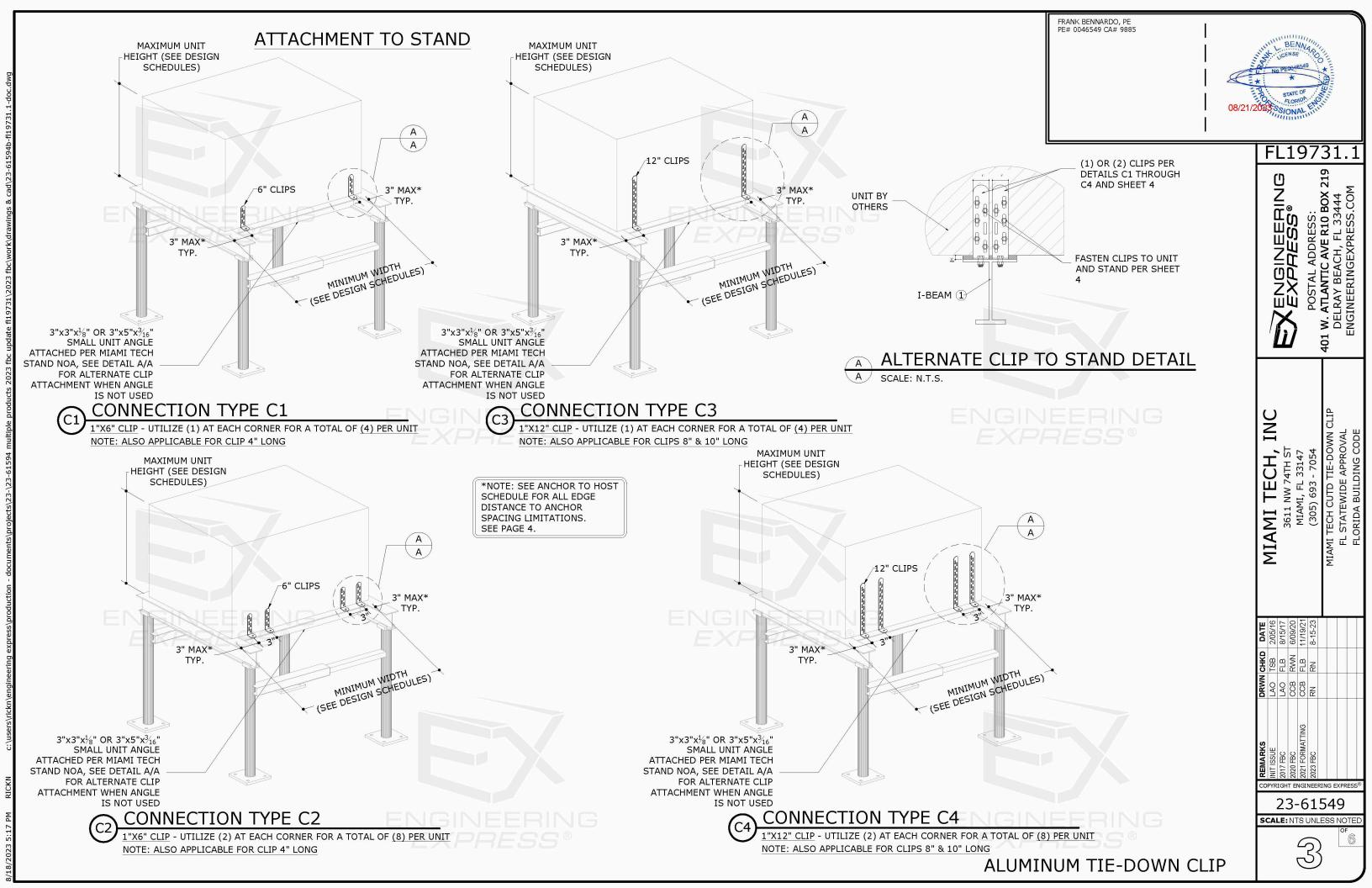
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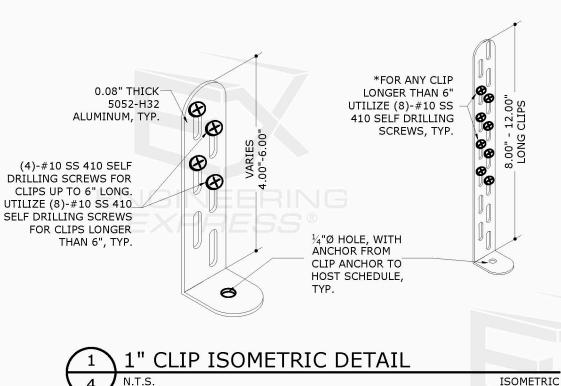
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MECHANICAL UNIT BY OTHERS. ALUMINUM HOUSING UNITS SHALL BE 6063-T6 MIN. ALUMINUM SHEET WITH Fty=30 KSI, 0.125" MIN. THICKNESS, STEEL HOUSING UNITS (4)-#10 SS 410 SELF DRILLING SCREWS FOR CLIPS UP TO 6" SHALL BE ASTM A653 Fy=33KSI MIN. STEEL, GRADE 33, 22GA MIN. (t=0.0299"). LONG. UTILIZE (8)-#10 SS 410 SELF DRILLING SCREWS FOR CLIPS LONGER THAN 6". PROVIDE UNIT (5) PITCHES MIN. PAST THREAD PLANE FOR EACH SMS, TYP. 0.08" THICK 5052-H32-ALUMINUM CLIP, TYP. ANCHOR PER ANCHOR SCHEDULE. SEE **DETAIL A-A FOR THRUBOLT ATTACHMENT**

SUBSTRATE PER ANCHOR TO HOST SCHEDULE (VARIES)

1" TIE-DOWN CLIP ANCHOR DETAIL

CLIP IS DESIGNED FOR FULL CONTACT WITH THE BASE OF EACH MECHANICAL UNIT, TYP.

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STEEL OR ALUMINUM SUBSTRATE PER ANCHOR **SCHEDULE**

FRANK BENNARDO, PE PE# 0046549 CA# 9885

BOLT PER

ANCHOR SCHEDULE

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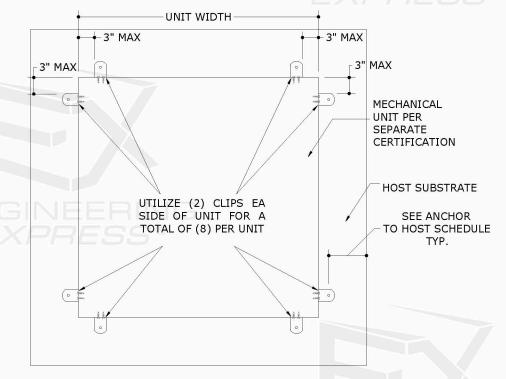
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ANCHOR TO HOST SCHEDULE:

SUBSTRATE	DESCRIPTION
CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-1/4"Ø STAINLESS STEEL 410 DEWALT ULTRACON, $1\frac{3}{4}$ " FULL EMBED TO CONCRETE, $2\frac{1}{2}$ " MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.
ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN. ALUMINUM)	(1)-#14 SAE STAINLESS STEEL BOLT 410 WITH NUT AND WASHER TOP & BOTTOM SS OD 1", ½" MINIMUM EDGE DISTANCE TO METAL EDGE
STEEL: (0.125" MIN. THICK, 50 KSI MIN. STEEL)	(1)-#14 SAE STAINLESS STEEL BOLT 410 WITH NUT AND WASHER TOP & BOTTOM SS OD 1", ½" MINIMUM EDGE DISTANCE TO METAL EDGE

- EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
- ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.
- ENSURE MINIMUM SPACING TO ANY ADJACENT ANCHORS.
- SEE DETAILS ON SHEET 4 FOR ANCHORS ATTACHING TO MECHANICAL UNIT.
- PROTECT ALL METALS FROM DISSIMILAR METALS GENERAL NOTE #5



DETAIL

ALTERNATE (8) CLIP DETAIL

THIS DETAIL MAY BE USED AS AN ALTERNATE GEOMETRIC PATTERN FOR ALL CONNECTION TYPES THAT UTILIZE (2) CLIPS AT EACH CORNER FOR A TOTAL OF (8) CLIPS PER UNIT.

FRANK BENNARDO, PE PE# 0046549 CA# 9885



TABLE 1 PERMISSIBLE INSTALLATION HEIGHTS: Vult=175 MPH, EXPOSURE C

(FOR USE WITH A RISK CATEGORY II STRUCTURE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ)*) RISK CAT

ΓEG	ORY II IS PER ASCE 7-	16					00 00
				ALL	OWABLE ROO	F-TOP HEIGHT	(H)
	ENGI	N = 1	=	V G TIE	-DOWN CONF	IGURATION T	/PE
	MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	C2	C3	C4
	6 FT ²	29" MAX	15" MIN	N/A	H ≤ 40 FT	N/A	H ≤ 40 FT
	9 FT ²	36" MAX	27" MIN	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT
	4 FT ²			AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT
	6 FT ²		36" MIN	N/A	H ≤ 140FT	N/A	H ≤ 140FT
	9 FT ²	48" MAX		N/A	H ≤ 15 FT	N/A	H ≤ 15 FT
	12 FT ²			N/A	AT GRADE	N/A	AT GRADE
	16 FT ²			N/A	N/A	N/A	N/A
	20 FT ²			N/A	N/A	N/A	N/A
	25 FT ²	60" MAX	401 MAIN	N/A	N/A	N/A	N/A
	30 FT ²		48" MIN	N/A	N/A	N/A	N/A
	36 FT ²				N/A	N/A	N/A

*THIS TABLE IS PERMISSIBLE TO BE USED WITHIN THE HVHZ WHICH CONTAINS BROWARD AND MIAMI-DADE COUNTIES. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES.

TABLE 2 PERMISSIBLE INSTALLATION HEIGHTS: Vult=175 MPH, EXPOSURE D

(FOR USE WITH A RISK CATEGORY II STRUCTURE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ)*) RISK CAT

EGORY II IS PER ASCE	7-16		ALL	OWARLEROO	E TOD HEIGHT	. /ப\	
			ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE				
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	C2	С3	C4	
6 FT ²	29" MAX	15" MIN	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT	
9 FT²	36" MAX	27" MIN	N/A	AT GRADE	N/A	AT GRADE	
4 FT ²			AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT	
6 FT ²			N/A	H ≤ 60 FT	N/A	H ≤ 80 FT	
9 FT²	48" MAX	36" MIN	N/A	AT GRADE	N/A	AT GRADE	
12 FT ²		N/A AT GRADE N/A	N/A	AT GRADE			
16 FT ²			N/A	N/A	N/A	N/A	
20 FT ²			N/A	N/A	N/A	N/A	
25 FT ²	60" MAX	40'l NAINI	N/A	N/A	N/A	N/A	
30 FT ²		48" MIN	N/A	N/A	N/A	N/A	
36 FT ²			N/A	N/A	N/A	N/A	

*THIS TABLE IS PERMISSIBLE TO BE USED WITHIN THE HVHZ WHICH CONTAINS BROWARD AND MIAMI-DADE COUNTIES. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES.

TABLE 3 PERMISSIBLE INSTALLATION HEIGHTS: Vult=170 MPH, EXPOSURE C

(FOR USE WITH A RISK CATEGORY II STRUCTURE**) RISK CATEGORY II IS PER ASCE 7-16

			ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE					
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	Ras.	N G B ® c2	C3	C4		
6 ft²	29 in	15 in	N/A	H ≤ 60 FT	N/A	H ≤ 60 FT		
9 ft²	36 in	27 in	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT		
4 ft²	48 in	36 in	H ≤ 15 FT	≤ 200 FT	H ≤ 15 FT	≤ 200 FT		
6 ft²	48 in	36 in	AT GRADE	≤ 180 FT	AT GRADE	≤ 200 FT		
9 ft²	48 in	36 in	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT		
12 ft²	48 in	36 in	N/A	AT GRADE	N/A	AT GRADE		
16 ft²	48 in	36 in	N/A	N/A	N/A	N/A		
20 ft²	60 in	48 in	N/A	N/A	N/A	N/A		
25 ft²	60 in	48 in	N/A	N/A	N/A	N/A		
30 ft²	60 in	48 in	N/A	N/A	N/A	N/A		
36 ft²	60 in	48 in	N/A	N/A	N/A	N/A		

TABLE 4 PERMISSIBLE INSTALLATION HEIGHTS: Vult=170 MPH, EXPOSURE D

(FOR USE WITH A RISK CATEGORY II STRUCTURE**) RISK CATEGORY II IS PER ASCE 7-16

			А	LLOWABLE INSTALL	ATION ROOF HEIG	HT
			_	TIE-DOWN CONF	IGURATION TYPE	
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	1NG 8 ° c1	C2	С3	C4
6 ft²	29 in	15 in	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT
9 ft²	36 in	27 in	N/A	AT GRADE	N/A	AT GRADE
4 ft²	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
6 ft²	48 in	36 in	N/A	≤ 100 FT	N/A	≤ 100 FT
9 ft²	48 in	36 in	N/A	AT GRADE	N/A	AT GRADE
12 ft²	48 in	36 in	N/A	AT GRADE	N/A	AT GRADE
16 ft²	48 in	36 in	N/A	N/A	N/A	N/A
20 ft²	60 in	48 in	N/A	N/A	N/A	N/A
25 ft²	60 in	48 in	N/A	N/A	N/A	N/A
30 ft²	60 in	48 in	N/A	N/A	N/A	N/A
36 ft²	60 in	48 in	N/A	N/A	N/A	N/A

**AS AN EXAMPLE, THESE TABLES ARE PERMISSIBLE TO BE USED WITHIN PALM BEACH COUNTY. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THESE TABLES WITHIN CERTAIN FLORIDA COUNTIES.

ALUMINUM TIE-DOWN CLIP

MIAMI TECH, 3611 NW 74TH ST

23-61549

***AS AN EXAMPLE, THESE TABLES ARE PERMISSIBLE TO BE USED WITHIN BREVARD COUNTY. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES. FRANK BENNARDO, PE PE# 0046549 CA# 9885



TABLE 5 PERMISSIBLE INSTALLATION HEIGHTS: Vult=140 MPH, EXPOSURE B

(FOR USE WITH A RISK CATEGORY II STRUCTURE***)
RISK CATEGORY II IS PER ASCE 7-16

			.00	ALLOWABLE INSTALL	ATION ROOF HEIGH	Т
			-	TIE-DOWN CONF	IGURATION TYPE	
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	C2	С3	C4
6 ft²	29 in	15 in	H ≤ 15 FT	≤ 200 FT	H ≤ 15 FT	≤ 200 FT
9 ft²	36 in	27 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
4 ft²	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT
6 ft²	48 in	36 in	H ≤ 40 FT	≤ 200 FT	H ≤ 60 FT	≤ 200 FT
9 ft²	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
12 ft²	48 in	36 in	AT GRADE	≤ 120 FT	AT GRADE	≤ 120 FT
16 ft²	48 in	36 in	N/A	H ≤ 40 FT	N/A	H ≤ 40 FT
20 ft ²	60 in	48 in	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT
25 ft²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE
30 ft ²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE
36 ft ²	60 in	48 in	N/A	N/A	N/A	N/A

TABLE 6 PERMISSIBLE INSTALLATION HEIGHTS: Vult=140 MPH, EXPOSURE C

(FOR USE WITH A RISK CATEGORY II STRUCTURE***) RISK CATEGORY II IS PER ASCE 7-16

			7 (R)			
			2	ALLOWABLE INSTALL	ATION ROOF HEIGH	T
				TIE-DOWN CONF	IGURATION TYPE	
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	C2	СЗ	C4
6 ft²	29 in	15 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
9 ft²	36 in	27 in	N/A	≤ 160 FT	AT GRADE	≤ 160 FT
4 ft²	48 in	36 in	≤ 100 FT	≤ 200 FT	≤ 100 FT	≤ 200 FT
6 ft²	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
9 ft²	48 in	36 in	AT GRADE	≤ 180 FT	AT GRADE	≤ 180 FT
12 ft²	48 in	36 in	N/A	H ≤ 40 FT	N/A	H ≤ 40 FT
16 ft²	48 in	36 in	N/A	AT GRADE	N/A	AT GRADE
20 ft²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE
25 ft²	60 in	48 in	N/A	N/A	N/A	N/A
30 ft²	60 in	48 in	N/A	N/A	N/A	N/A
36 ft ²	60 in	48 in	N/A	N/A	N/A	N/A

TABLE 7 PERMISSIBLE INSTALLATION HEIGHTS: Vult=140 MPH, EXPOSURE D

(FOR USE WITH A RISK CATEGORY II STRUCTURE***) RISK CATEGORY II IS PER ASCE 7-16

			ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE					
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1	Fc2 \ (C2 \ E2 \)	сз			
6 ft²	29 in	15 in	N/A	≤ 200 FT	N/A	≤ 200 FT		
9 ft²	36 in	27 in	N/A	≤ 80 FT	N/A	≤ 80 FT		
4 ft²	48 in	36 in	H ≤ 40 FT	≤ 200 FT	H ≤ 40 FT	≤ 200 FT		
6 ft²	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT		
9 ft²	48 in	36 in	N/A	≤ 80 FT	N/A	≤ 100 FT		
12 ft²	48 in	36 in	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT		
16 ft²	48 in	36 in	N/A	AT GRADE	N/A	AT GRADE		
20 ft²	60 in	48 in	N/A	N/A	N/A	N/A		
25 ft²	60 in	48 in	N/A	N/A	N/A	N/A		
30 ft ²	60 in	48 in	N/A	N/A	N/A	N/A		
36 ft²	60 in	48 in	N/A	N/A	N/A	N/A		

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