

MIAMI TECH, INC.

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

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

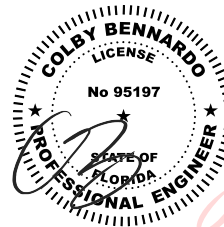
NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

THIS IS A 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.

ENGINEER SIGNATURE & SEAL NOTICE:

*PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.
*FOR FLORIDA STATEWIDE PRODUCT APPROVALS (FSAs) REGISTERED & APPROVED WITH THE STATE OF FLORIDA: ORIGINAL, SEALED COPIES OF APPROVED FLORIDA PRODUCT APPROVALS ARE NOT REQUIRED FOR PERMIT. SEE ECALC.IO/SEAL TO LEARN MORE.

COLBY BENNARDO, PE
PE# 95197 CA# 9885



Digitally signed by
Colby Bennardo
Date: 2026.08.20
10:02:48 -04'00'

DESIGN NOTES:

- THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH ASCE 7 AND THE FLORIDA BUILDING CODE NINTH EDITION (2026) 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: $(GC_r)_{Lateral} = 1.90$ WITHIN THE HVHZ & OUTSIDE THE HVHZ, $(GC_r)_{Uplift} = 1.5$ FOR ALL LOCATIONS (CONCURRENT).
- 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.
- 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.
- 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.
- STEEL CLIPS SHALL BE ASTM A653 STEEL WITH $F_y = 33$ KSI OR BETTER. STEEL MEMBERS SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL OR OTHER APPROVED PROTECTION. G90-RATED COATING REQUIRED FOR COASTAL INSTALLATIONS.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH 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.
- FASTENERS TO BE #10 X 3/4" OR GREATER STAINLESS STEEL 410 UNLESS NOTED OTHERWISE. ANCHORS REFERRED TO HEREIN SHALL BE DEWALT BRAND, STAINLESS STEEL 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.
- FOR PERMANENT OUTDOOR INSTALLATIONS, ALL EXPOSED ANCHORS, FASTENERS, CONNECTORS, AND METAL PLATES SHALL BE CORROSION RESISTANT. CORROSION RESISTANCE MAY BE PROVIDED BY INHERENT MATERIAL COMPOSITION OR, WHERE PERMITTED BY CODE, BY AN APPROVED PROTECTIVE COATING OR GALVANIZATION. WHERE APPLICABLE NEAR A SALTWATER COASTLINE, SUCH COMPONENTS SHALL COMPLY WITH FBC SECTION 1711, INCLUDING APPLICABLE REQUIREMENTS FOR EXPOSED, PROTECTED, OR ENCLOSED CONDITIONS. MATERIALS, COATINGS, AND FINISHES SHALL BE COMPATIBLE WITH CONNECTED MATERIALS, AND PROTECTIVE COATINGS SHALL BE CONTINUOUS OVER EXPOSED SURFACES. FASTENERS USED WITH ALUMINUM MEMBERS SHALL ALSO COMPLY WITH SECTION J.3.7.2 OF THE ALUMINUM DESIGN MANUAL, "SPECIFICATION FOR ALUMINUM STRUCTURES." SUBSTITUTION OF COMPONENTS FROM ALTERNATE MANUFACTURERS, OR WITH DIFFERENT MATERIALS, COATINGS, OR FINISHES, SHALL NOT BE ASSUMED EQUIVALENT AND MAY REQUIRE ADDITIONAL ENGINEERING REVIEW OR SITE-SPECIFIC ANALYSIS.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- 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.
- THE SYSTEM DETAILED HEREIN IS GENERIC & DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. THESE PLANS SHALL BE USED ALONG WITH SITE SPECIFIC PLANS & INFORMATION BY OTHERS TO CONSTITUTE APPROVAL FOR PERMIT & CONSTRUCTION.
- 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.
- FOR AN EXPLANATION OF EXPOSURE AND RISK CATEGORIES THAT ACCOMPANY THE Vult WIND SPEEDS USED IN THIS APPROVAL, SEE ASCE 7.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

VISIT ECALC.IO/98687

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

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



FL19731.2

ENGINEERING
EXPRESS®

POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

MIAMI TECH, INC

361 NW, 74TH ST
MIAMI, FL 33147
(305) 693 - 7054

MIAMI TECH TIE DOWN CLIP

FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA #19731.2)

REMARKS	DATE	DRWN	CHKD
2017 FBC (15-2786)	8/14/17	LAO	FLB
2020 FBC (20-26324)	6/09/20	CCB	RWN
2021 FORMATTING (20-26324)	11/19/21	CCH	RWN
2023 FBC (23-61594)	08/15/23	RN	RN
2026 FBC (26-98687)	07/29/26	MARH	EPR

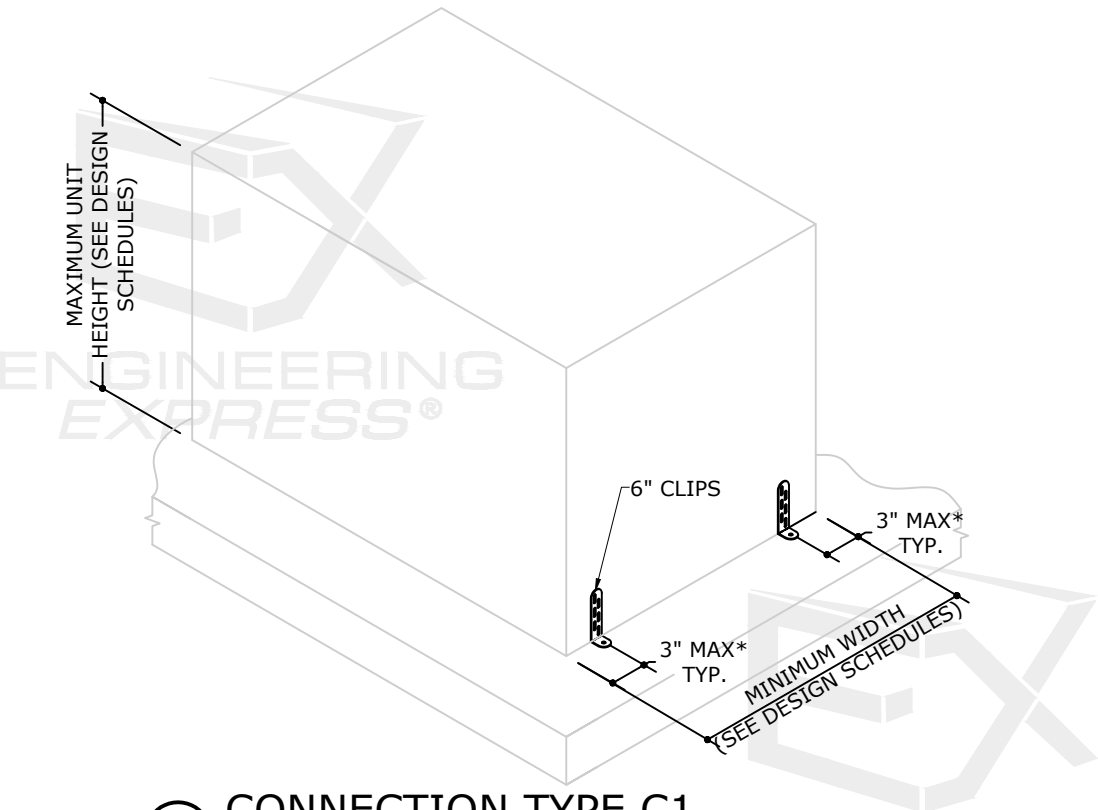
COPYRIGHT ENGINEERING EXPRESS®

26-98687

SCALE: NTS UNLESS NOTED

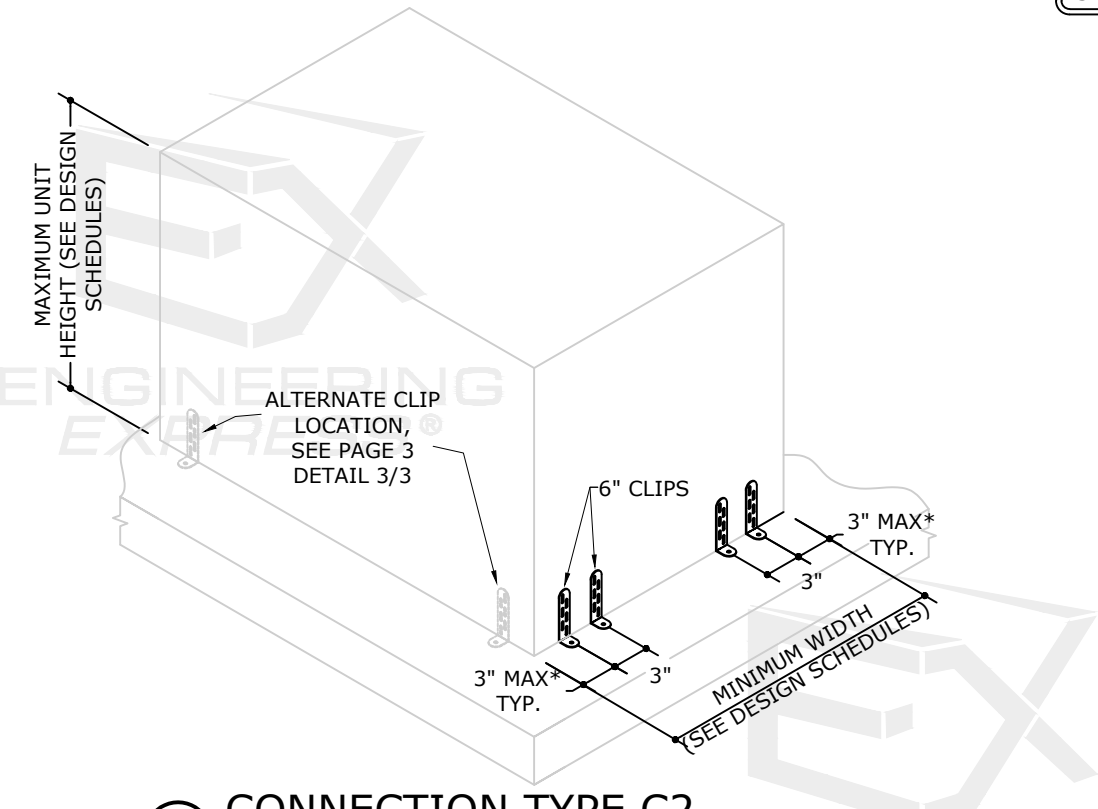
1 OF 6

8/20/2026 7:28 AM ASUS z:\shared\projects\26-126-98686 2026 multiple product fbc update fl19731\work\2026 fbc\drawings & cad\26-98687c-fl19731.2-dwg.dwg

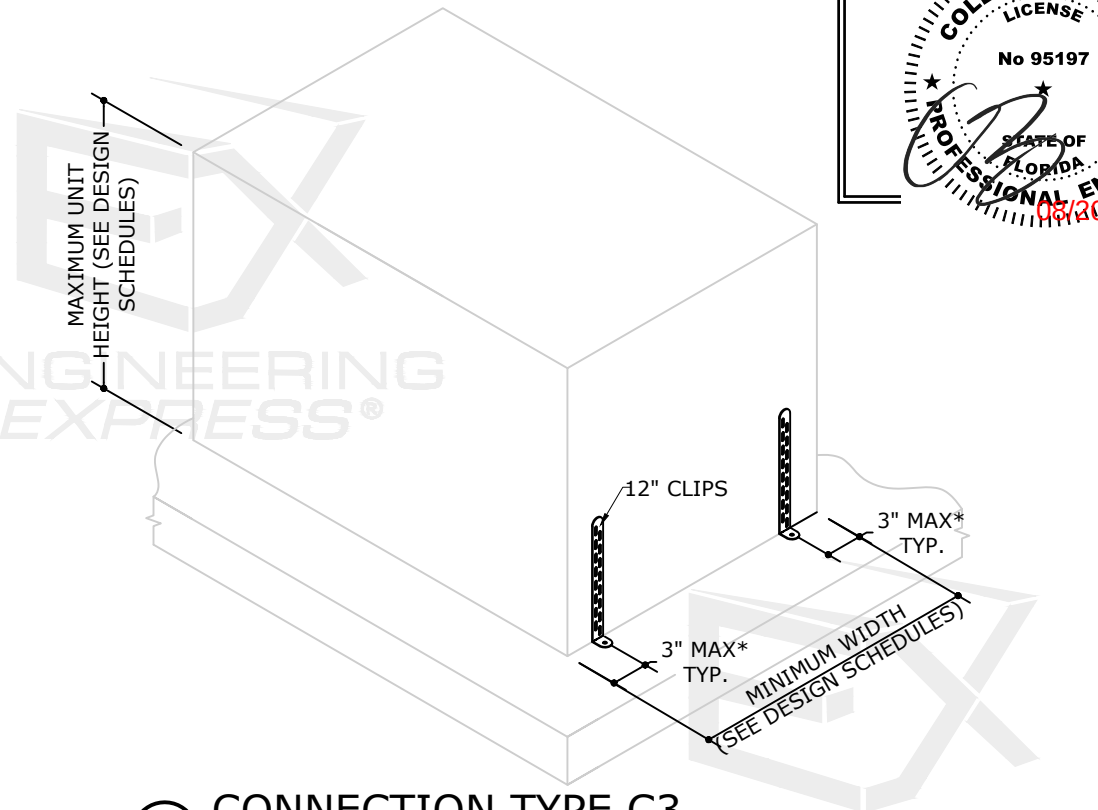


C1 CONNECTION TYPE C1
1"x6" CLIP - UTILIZE (1) AT EACH CORNER FOR A TOTAL OF (4) PER UNIT
NOTE: ALSO APPLICABLE FOR CLIP 4" LONG

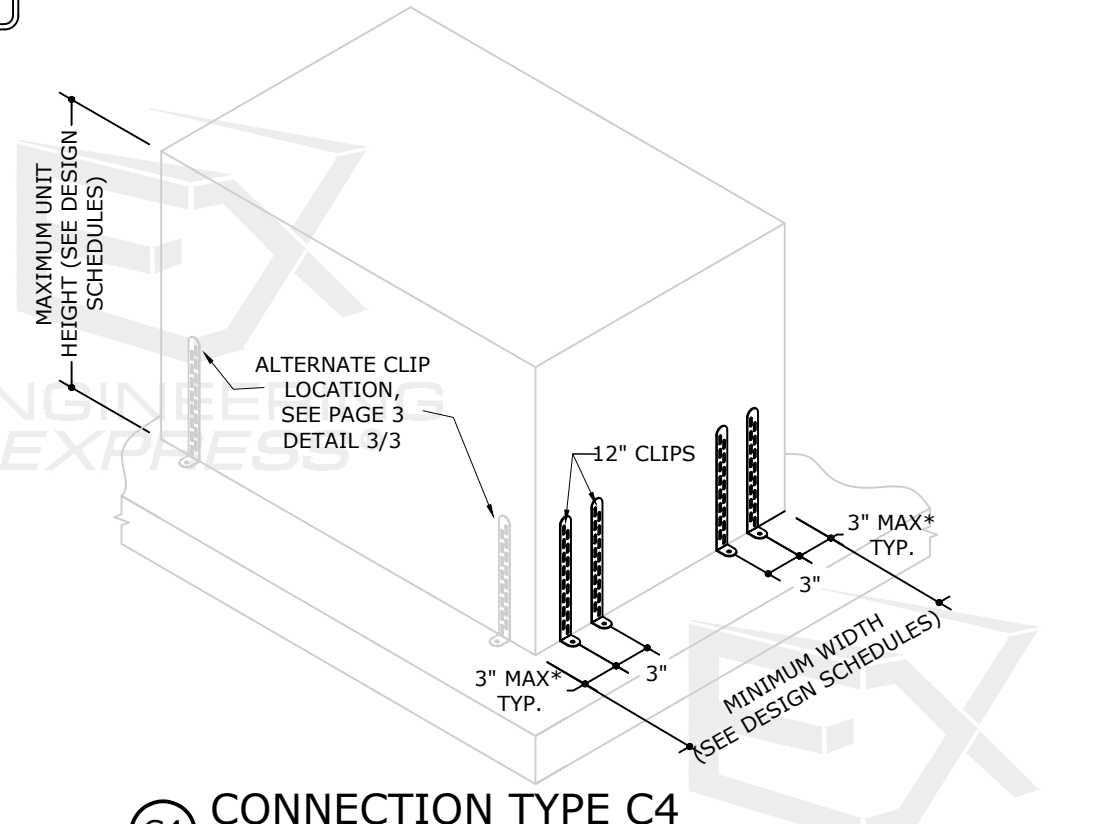
*NOTE: SEE ANCHOR TO HOST SCHEDULE FOR ALL EDGE DISTANCE TO ANCHOR SPACING LIMITATIONS. SEE PAGE 4.



C2 CONNECTION TYPE C2
1"x6" CLIP - UTILIZE (2) AT EACH CORNER FOR A TOTAL OF (8) PER UNIT
NOTE: ALSO APPLICABLE FOR CLIP 4" LONG

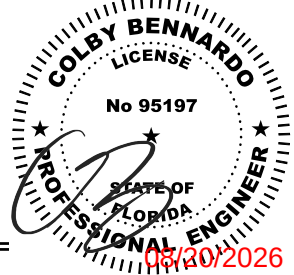


C3 CONNECTION TYPE C3
1"x12" CLIP - UTILIZE (1) AT EACH CORNER FOR A TOTAL OF (4) PER UNIT
NOTE: ALSO APPLICABLE FOR CLIPS 8" & 10" LONG



C4 CONNECTION TYPE C4
1"x12" CLIP - UTILIZE (2) AT EACH CORNER FOR A TOTAL OF (8) PER UNIT
NOTE: ALSO APPLICABLE FOR CLIPS 8" & 10" LONG

COLBY BENNARD, PE
PE# 95197 CA# 9885



FL

FL19731.2

ENGINEERING EXPRESS®

POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

MIAMI TECH, INC

361 NW, 74TH ST
MIAMI, FL 33147
(305) 693 - 7054

MIAMI TECH TIE DOWN CLIP

FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#19731.2)

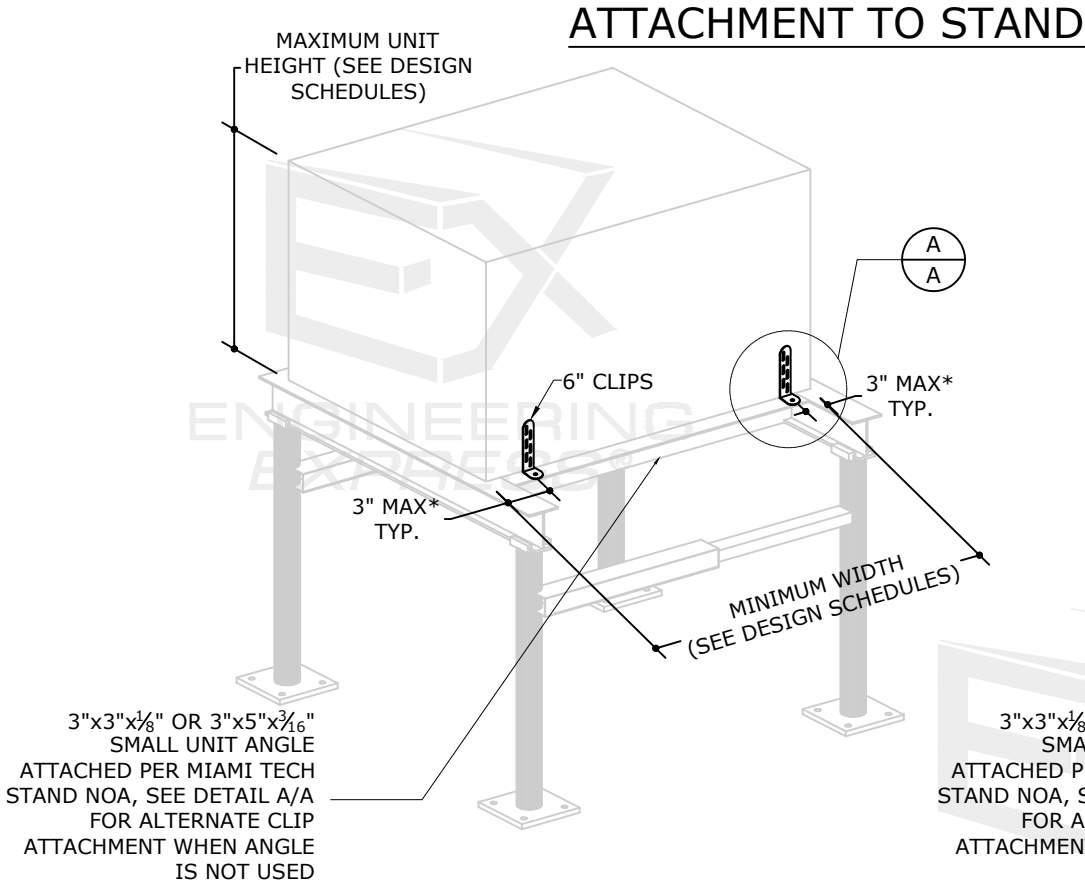
REMARKS	DRWN	CHKD	DATE
2017 FBC (15-2786)	LAO	FLB	8/14/17
2020 FBC (20-26324)	CCB	RWN	6/09/20
2021 FORMATTING (20-26324)	CCH	RWN	11/19/21
2023 FBC (23-61594)	RN	RN	08/15/23
2026 FBC (26-98687)	MARH	EPR	07/29/26

COPYRIGHT ENGINEERING EXPRESS®

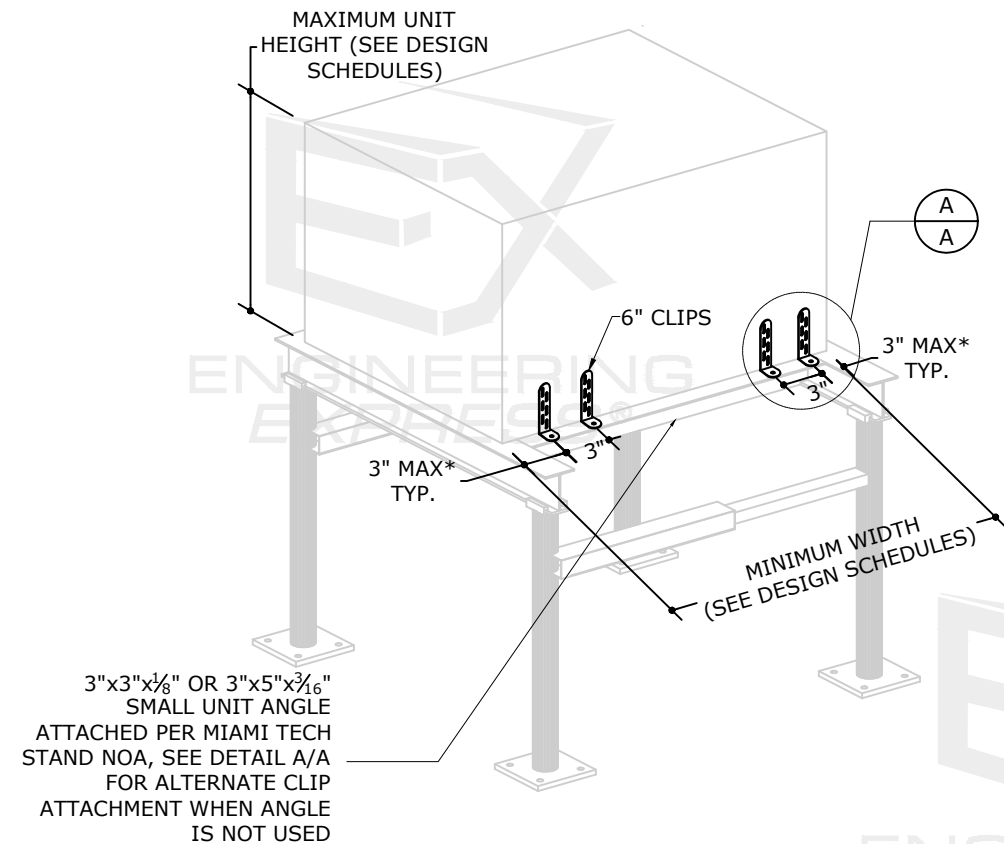
26-98687

SCALE: NTS UNLESS NOTED

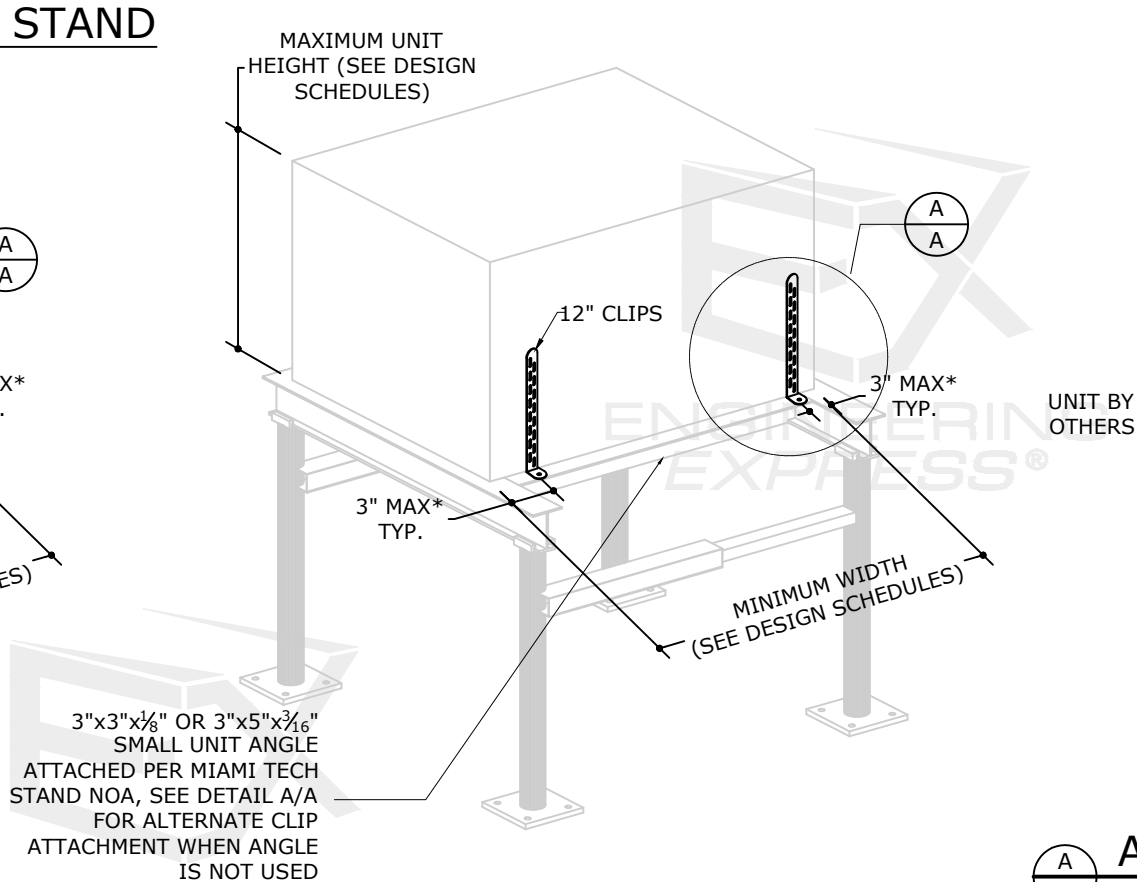
8/20/2026 7:28 AM ASUS z:\shared\projects\26-126-98686 2026 multiple product fbc update fl19731\work\2026 fbc\drawings & cad\26-98687c-fl19731.2-dwg.dwg



C1 CONNECTION TYPE C1
1"x6" CLIP - UTILIZE (1) AT EACH CORNER FOR A TOTAL OF (4) PER UNIT
NOTE: ALSO APPLICABLE FOR CLIP 4" LONG

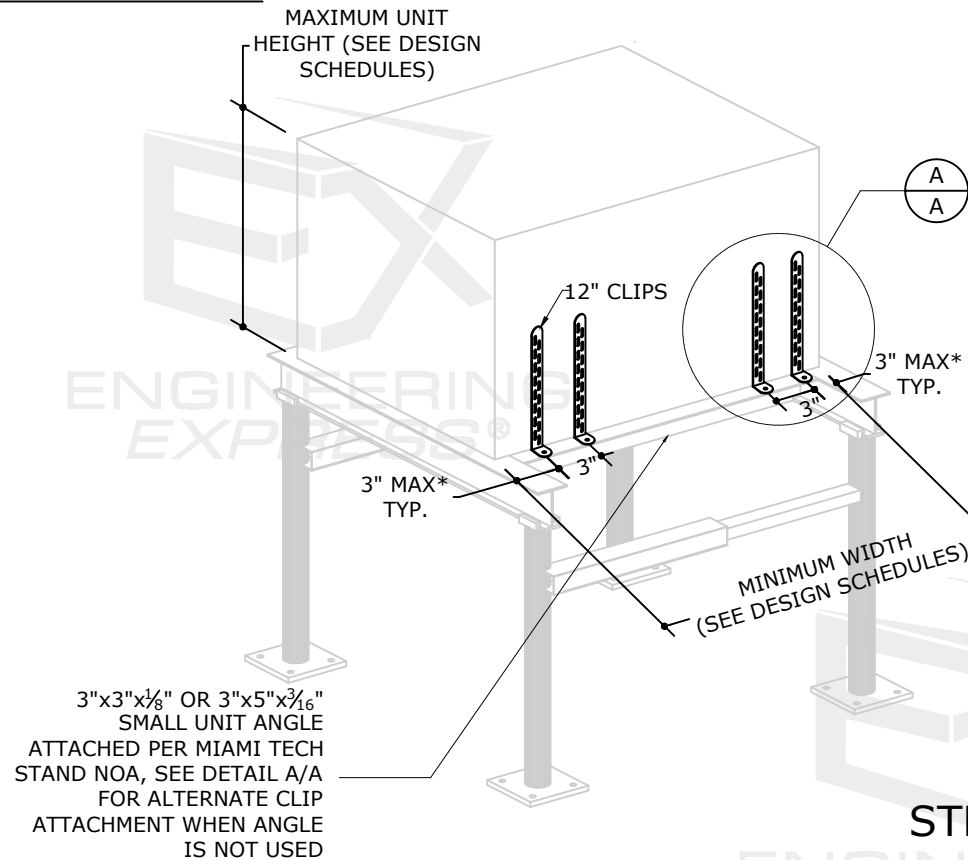


C2 CONNECTION TYPE C2
1"x6" CLIP - UTILIZE (2) AT EACH CORNER FOR A TOTAL OF (8) PER UNIT
NOTE: ALSO APPLICABLE FOR CLIP 4" LONG



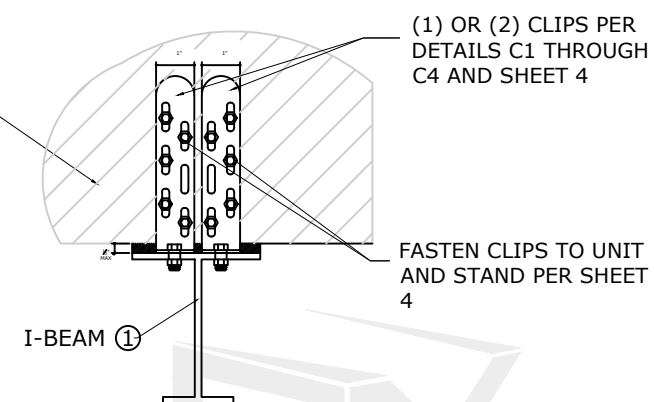
C3 CONNECTION TYPE C3
1"x12" CLIP - UTILIZE (1) AT EACH CORNER FOR A TOTAL OF (4) PER UNIT
NOTE: ALSO APPLICABLE FOR CLIPS 8" & 10" LONG

*NOTE: SEE ANCHOR TO HOST SCHEDULE FOR ALL EDGE DISTANCE TO ANCHOR SPACING LIMITATIONS. SEE PAGE 4.



C4 CONNECTION TYPE C4
1"x12" CLIP - UTILIZE (2) AT EACH CORNER FOR A TOTAL OF (8) PER UNIT
NOTE: ALSO APPLICABLE FOR CLIPS 8" & 10" LONG

ALTERNATE CLIP TO STAND DETAIL
SCALE: N.T.S.



COLBY BENNARDO, PE
PE# 95197 CA# 9885

COLBY BENNARDO
LICENSE
No 95197
PROFESSIONAL ENGINEER
STATE OF FLORIDA
08/20/2026

FL19731.2

ENGINEERING EXPRESS
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

MIAMI TECH, INC
361 NW, 74TH ST
MIAMI, FL 33147
(305) 693 - 7054
MIAMI TECH TIE DOWN CLIP
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#19731.2)

REMARKS	DRWN	CHKD	DATE
2017 FBC (15-2786)	LAO	FLB	8/14/17
2020 FBC (20-26324)	CCB	RWN	6/09/20
2021 FORMATTING (20-26324)	CCH	RWN	11/19/21
2023 FBC (23-61594)	RN	RN	08/15/23
2026 FBC (26-98687)	MARH	EPR	07/29/26

26-98687

SCALE: NTS UNLESS NOTED

3

FL

**ENGINEERING
EXPRESS®**

POSTAL ADDRESS:

22234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

MIAMI TECH TIE DOWN CLIP
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#19731.2)

REMARKS	DRWN	CHKD	DATE
2017 FBC (15-2786)	LAO	FLB	8/14/17
2020 FBC (20-26324)	CCB	RWN	6/09/20
2021 FORMATTING (20-26324)	CCH	RWN	11/19/21
2023 FBC (23-61594)	RN	RN	08/15/23
2026 FBC (26-98687)	MARH	EPR	07/29/26

SCALE: NTS UNLESS NOTED

4



(4)-#10 SS 410 SELF DRILLING SCREWS FOR CLIPS UP TO 6" LONG. UTILIZE (8)-#10 SS 410 SELF DRILLING SCREWS FOR CLIPS LONGER THAN 6". PROVIDE (5) PITCHES MIN. PAST THREAD PLANE FOR EACH SMS, TYP.

0.07" THICK ASTM A653 STEEL CLIP, TYP.

UNIT

SUBSTRATE

0.75"

ANCHOR PER ANCHOR SCHEDULE. SEE DETAIL A-A FOR THRU-BOLT ATTACHMENT

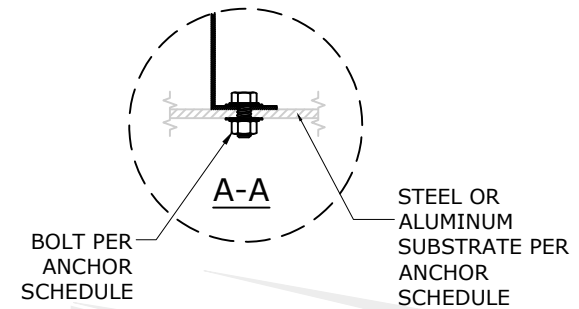
SUBSTRATE PER ANCHOR TO HOST SCHEDULE (VARIES)

A-A

1" TIE-DOWN CLIP ANCHOR DETAIL

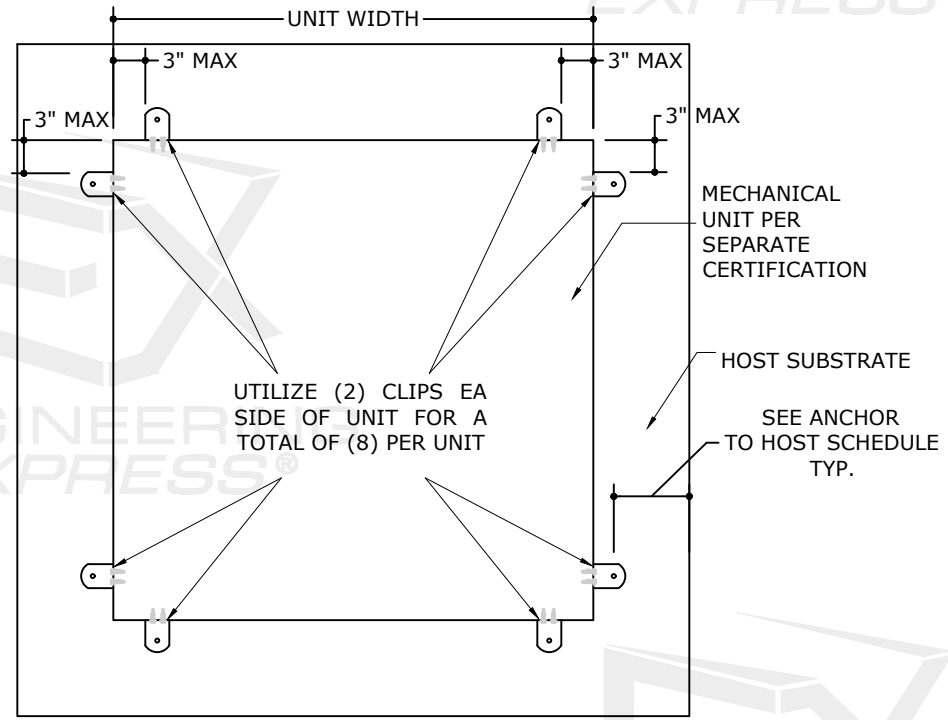
3" = 1'-0"

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



SUBSTRATE	DESCRIPTION
CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-1/4"Ø STAINLESS STEEL 410 DEWALT ULTRACON, 1 3/4" FULL EMBED TO CONCRETE, 2 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", 1/2" 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", 1/2" MINIMUM EDGE DISTANCE TO METAL EDGE

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



ALTERNATE (8) CLIP DETAIL

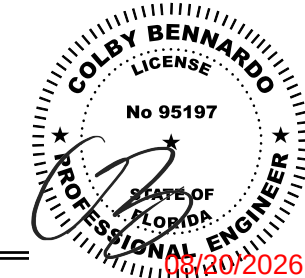
N.T.S. PLAN VIEW

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.

STEEL TIE-DOWN CLIP

z:\shared\projects\26-126-98686 2026 multiple product fbc update fl19731\work\2026 fbc\drawings & cad\26-98687c-fl19731.2-dwg.dwg 8/20/2026 7:28 AM ASUS

COLBY BENNARD, PE
PE# 95197 CA# 9885



FL

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 CATEGORY II IS PER ASCE 7-16

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 FT²	29" MAX	15" MIN	AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT
9 FT²	36" MAX	27" MIN	AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT
4 FT²	48" MAX	36" MIN	H ≤ 160 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
6 FT²			H ≤ 15 FT	H ≤ 200 FT	H ≤ 30 FT	H ≤ 200 FT
9 FT²			AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT
12 FT²			N/A	H ≤ 60 FT	N/A	H ≤ 100 FT
16 FT²	60" MAX	48" MIN	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT
20 FT²			N/A	AT GRADE	N/A	AT GRADE
25 FT²			N/A	AT GRADE	N/A	AT GRADE
30 FT²			N/A	N/A	N/A	N/A
36 FT²			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 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 CATEGORY II IS PER ASCE 7-16

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 FT²	29" MAX	15" MIN	N/A	H ≤ 200 FT	AT GRADE	H ≤ 200 FT
9 FT²	36" MAX	27" MIN	N/A	H ≤ 140FT	N/A	H ≤ 200 FT
4 FT²	48" MAX	36" MIN	H ≤ 80 FT	H ≤ 200 FT	H ≤ 140FT	H ≤ 200 FT
6 FT²			AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT
9 FT²			N/A	H ≤ 160 FT	AT GRADE	H ≤ 200 FT
12 FT²			N/A	H ≤ 30 FT	N/A	H ≤ 40 FT
16 FT²	60" MAX	48" MIN	N/A	AT GRADE	N/A	AT GRADE
20 FT²			N/A	AT GRADE	N/A	AT GRADE
25 FT²			N/A	N/A	N/A	N/A
30 FT²			N/A	N/A	N/A	N/A
36 FT²			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

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 ft²	29 in	15 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 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 ≤ 30 FT	≤ 200 FT	H ≤ 40 FT	≤ 200 FT
9 ft²	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
12 ft²	48 in	36 in	N/A	≤ 80 FT	N/A	≤ 140 FT
16 ft²	48 in	36 in	N/A	H ≤ 15 FT	N/A	H ≤ 30 FT
20 ft²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE
25 ft²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE
30 ft²	60 in	48 in	N/A	N/A	N/A	AT GRADE
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.

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

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 ft²	29 in	15 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
9 ft²	36 in	27 in	N/A	≤ 200 FT	AT GRADE	≤ 200 FT
4 ft²	48 in	36 in	≤ 120 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT
6 ft²	48 in	36 in	AT GRADE	≤ 200 FT	H ≤ 15 FT	≤ 200 FT
9 ft²	48 in	36 in	N/A	≤ 200 FT	AT GRADE	≤ 200 FT
12 ft²	48 in	36 in	N/A	H ≤ 40 FT	N/A	H ≤ 60 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 ft²	60 in	48 in	N/A	N/A	N/A	N/A

STEEL TIE-DOWN CLIP

FL19731.2

**ENGINEERING
EXPRESS®**
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

MIAMI TECH, INC
361 NW, 74TH ST
MIAMI, FL 33147
(305) 693 - 7054
MIAMI TECH TIE DOWN CLIP
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#19731.2)

REMARKS	DRWN	CHKD	DATE
2017 FBC (15-2786)	LAO	FLB	8/14/17
2020 FBC (20-26324)	CCB	RWN	6/09/20
2021 FORMATTING (20-26324)	CCH	RWN	11/19/21
2023 FBC (23-61594)	RN	RN	08/15/23
2026 FBC (26-98687)	MARH	EPR	07/29/26

COPYRIGHT ENGINEERING EXPRESS®

26-98687

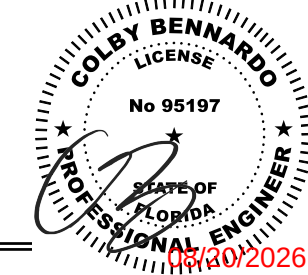
SCALE: NTS UNLESS NOTED

5

OF 6

z:\shared\projects\26-1\26-98686 2026 multiple product fbc update fl19731\work\2026 fbc\drawings & cad\26-98687c-fl19731.2-dwg.dwg 8/20/2026 7:28 AM ASUS

COLBY BENNARD, PE
PE# 95197 CA# 9885



FL

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

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 ft²	29 in	15 in	≤ 100 FT	≤ 200 FT	≤ 140 FT	≤ 200 FT
9 ft²	36 in	27 in	≤ 80 FT	≤ 200 FT	≤ 100 FT	≤ 200 FT
4 ft²	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT
6 ft²	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT
9 ft²	48 in	36 in	≤ 80 FT	≤ 200 FT	≤ 120 FT	≤ 200 FT
12 ft²	48 in	36 in	H ≤ 30 FT	≤ 200 FT	H ≤ 40 FT	≤ 200 FT
16 ft²	48 in	36 in	AT GRADE	≤ 200 FT	H ≤ 15 FT	≤ 200 FT
20 ft²	60 in	48 in	AT GRADE	≤ 160 FT	AT GRADE	≤ 200 FT
25 ft²	60 in	48 in	N/A	H ≤ 60 FT	AT GRADE	≤ 100 FT
30 ft²	60 in	48 in	N/A	H ≤ 30 FT	N/A	H ≤ 40 FT
36 ft²	60 in	48 in	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT

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

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 ft²	29 in	15 in	H ≤ 30 FT	≤ 200 FT	H ≤ 40 FT	≤ 200 FT
9 ft²	36 in	27 in	H ≤ 15 FT	≤ 200 FT	H ≤ 30 FT	≤ 200 FT
4 ft²	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT
6 ft²	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT
9 ft²	48 in	36 in	H ≤ 15 FT	≤ 200 FT	H ≤ 40 FT	≤ 200 FT
12 ft²	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
16 ft²	48 in	36 in	N/A	≤ 140 FT	AT GRADE	≤ 200 FT
20 ft²	60 in	48 in	N/A	H ≤ 40 FT	N/A	≤ 80 FT
25 ft²	60 in	48 in	N/A	H ≤ 15 FT	N/A	H ≤ 30 FT
30 ft²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE
36 ft²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE

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

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 ft²	29 in	15 in	AT GRADE	≤ 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	≤ 100 FT	≤ 200 FT	≤ 180 FT	≤ 200 FT
9 ft²	48 in	36 in	AT GRADE	≤ 200 FT	H ≤ 15 FT	≤ 200 FT
12 ft²	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
16 ft²	48 in	36 in	N/A	≤ 80 FT	N/A	≤ 120 FT
20 ft²	60 in	48 in	N/A	H ≤ 15 FT	N/A	H ≤ 40 FT
25 ft²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE
30 ft²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE
36 ft²	60 in	48 in	N/A	N/A	N/A	AT GRADE

***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.

FL19731.2

**ENGINEERING
EXPRESS®**
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

MIAMI TECH, INC
361 NW, 74TH ST
MIAMI, FL 33147
(305) 693 - 7054
MIAMI TECH TIE DOWN CLIP
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#19731.2)

REMARKS	DRWN	CHKD	DATE
2017 FBC (15-2786)	LAO	FLB	8/14/17
2020 FBC (20-26324)	CCB	RWN	6/09/20
2021 FORMATTING (20-26324)	CCH	RWN	11/19/21
2023 FBC (23-61594)	RN	RN	08/15/23
2026 FBC (26-98687)	MARH	EPR	07/29/26

COPYRIGHT ENGINEERING EXPRESS®

26-98687

SCALE: NTS UNLESS NOTED

6

STEEL TIE-DOWN CLIP