



BUILDING DIVISION
DEPARTMENT FOR COMMUNITY SUSTAINABILITY
CITY OF LAKE WORTH BEACH
1900 2ND AVENUE NORTH
LAKE WORTH BEACH, FL 33461
561.586.1647

PERMIT APPLICATION

MASTER PERMIT NUMBER

PERMIT NUMBER (FOR OFFICE USE ONLY)

WORK LOCATION

ADDRESS 17 S M ST LAKE WORTH, FL 33460
FLOOR/BAY/SUITE/APT # N/A
SUBDIVISION LAKE WORTH TOWN OF BLOCK 23 LOT 23 & 24
PARCEL ID# 38 - 43 - 44 21-15-023-0230

PERMIT TYPE

- | | | |
|---|-------------------------------------|--|
| ☐ STRUCTURE | ☐ DEMOLITION | ☐ ELECTRICAL |
| ☐ ADDITION | ☐ RELOCATION | ☒ MECHANICAL |
| ☐ ALTERATION | ☐ ROOFING | ☐ PLUMBING |
| ☐ REPAIR | ☐ FENCE | ☐ POOL |
| ☐ FIRE SPRINKLER | ☐ SIGN | ☐ IRRIGATION |
| ☐ FIRE ALARM | ☐ SIDEWALK | ☐ BACKFLOW |
| ☐ DRIVEWAY | ☐ GAS | ☐ CHANGE OF CONTRACTOR |
| ☐ APPROACH | ☐ FUEL | ☐ GENERATOR |
| ☐ RESIDENTIAL | ☐ COMMERCIAL | ☐ DOOR |
| ☐ WINDOW | ☐ SHUTTER | ☐ OTHER |

CONTRACTOR

QUALIFIER NAME PAUL WELLER
COMPANY NAME PHOENIX AIR CONDITIONING, LLC
ADDRESS 3550 23RD AVE S #3
CITY LAKE WORTH STATE FL ZIP 33461
STATE LIC. OR COMPETENCY # CAC-1816659
PHONE# (561) 966-9995 CELL#
E-MAIL CUSTOMERSERVICE@PHOENIXAIRLLC.COM

OWNER OF RECORD

NAME LAST FIRST MI
LAKE WORTH BEACH CRA
ADDRESS 17 S M ST
CITY LAKE WORTH STATE FL ZIP 33460
PHONE 561-533-7347 CELL
TENANT NAME N/A

DESCRIBE PROJECT IN DETAIL

EXACT HVAC CHANGE OUT 3 TON UNIT

VALUE \$ 5,461.00 SQUARE FOOTAGE 2,100 CHANGE OF OCCUPANCY OR USE YES ☐ NO ☒

PRIMARY PERMIT FEES SHALL INCLUDE THE FEES FOR SUBPERMITS. PROVIDED THAT ALL APPLICABLE SUBCONTRACTOR QUALIFIER SIGNATURES ARE ON THE APPLICATION AND PLANS INCLUDE THE DETAILS OF ALL SUBCONTRACTOR WORK. FAILURE TO INCLUDE THE REQUIRED INFORMATION AT THE TIME OF APPLICATION SHALL REQUIRE THAT A SEPARATE PERMIT BE ISSUED WITH APPROPRIATE FEES BEING CHARGED TO THE APPLICANT. CURRENT REGISTRATION REQUIRED AT TIME OF SUBMITTAL.

Building Contractor: _____ Qualifier/Agent Signature _____	DATE _____	STATE LIC/CERT. OF COMPETENCY _____	BUILDING PERMIT # _____
Electrical Contractor: _____ Qualifier/Agent Signature _____	DATE _____	STATE LIC/CERT. OF COMPETENCY _____	ELECTRICAL PERMIT # _____
Mechanical Contractor: <u>PAUL WELLER/PHOENIX AIR CONDITIONING, LLC</u> Qualifier/Agent Signature _____	DATE _____	STATE LIC/CERT. OF COMPETENCY <u>CAC-1816659</u>	MECHANICAL PERMIT # _____
Plumbing Contractor: _____ Qualifier/Agent Signature _____	DATE _____	STATE LIC/CERT. OF COMPETENCY _____	PLUMBING PERMIT # _____
Roofing Contractor: _____ Qualifier/Agent Signature _____	DATE _____	STATE LIC/CERT. OF COMPETENCY _____	ROOFING PERMIT # _____

Building Division | Department for Community Sustainability
City of Lake Worth Beach | 1900 2nd Avenue North | Lake Worth Beach,
FL 33461

NOTICE TO PROPERTY OWNERS

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

BEFORE ANY WORK IS DONE BY YOU OR YOUR CONTRACTOR, IMMEDIATELY FILE FOR AND RECORD A NOTICE OF COMMENCEMENT WITH THE OFFICE OF THE CLERK OF THE CIRCUIT COURT. THIS STEP IS REQUIRED BY THE FLORIDA CONSTRUCTION LIEN LAW.

IF YOU HAVE HIRED A CONTRACTOR TO DO THE WORK, MAKE SURE THAT THE CONTRACTOR OBTAINS THE PERMIT. THE CONTRACTOR'S SIGNATURE INDICATES HE OR SHE IS RESPONSIBLE FOR THE WORK, AND IF THE WORK IS NOT PERFORMED ACCORDING TO CODE, THE CITY CAN REQUIRE CORRECTIVE ACTION BY THE PARTY WHO OBTAINED THE PERMIT. FURTHERMORE, IF THE CONTRACTOR IS NOT LICENSED, YOU CAN BE IN VIOLATION OF STATE LAW BY ALLOWING AN UNLICENSED PERSON TO DO THIS WORK.

SINCE YOU OR YOUR CONTRACTOR HAVE APPLIED FOR A BUILDING PERMIT FOR WORK TO BE DONE ON PROPERTY YOU OWN, YOU SHOULD BE AWARE THAT:

ANY PERSON WHO FURNISHED LABOR (A CONTRACTOR, SUBCONTRACTOR OR LABORER) OR SUPPLIES MATERIALS FOR YOUR HOME REPAIR, IMPROVEMENT OR NEW CONSTRUCTION MAY BE ABLE TO FILE A CLAIM (CALLED A LIEN) AGAINST YOU IF HE HAS NOT BEEN PAID BY YOUR CONTRACTOR OR YOU. YOU ARE LIABLE TO SUBCONTRACTORS OR SUPPLIERS IF THEY ARE NOT PAID BY YOUR CONTRACTOR OR YOURSELF.

AT THE COMPLETION OF WORK, REQUIRE THE CONTRACTOR TO GIVE YOU A SWORN NOTARIZED STATEMENT INDICATING ALL BILLS FOR LABOR AND MATERIALS HAVE BEEN PAID OR A LIST NAMING THOSE SUPPLYING LABOR AND MATERIALS THAT HAVE NOT BEEN PAID. ASK FOR THE AFFIDAVIT BEFORE MAKING THE LAST PAYMENT.

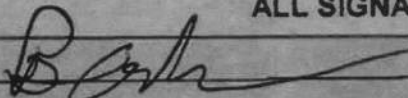
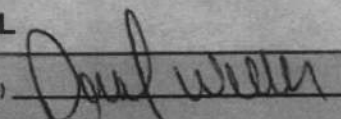
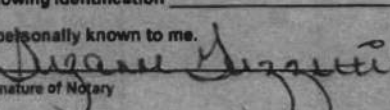
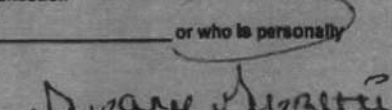
UNLICENSED CONTRACTORS: NO PERSON SHALL ENGAGE IN BUSINESS OR ACT IN THE CAPACITY OF A CONTRACTOR WITHOUT BEING DULY REGISTERED OR CERTIFIED. ANY PERSON WHO VIOLATES THIS PROVISION IS GUILTY OF A MISDEMEANOR OF THE FIRST DEGREE AND MAY BE PUNISHED BY A PRISON TERM NOT EXCEEDING ONE (1) YEAR AND/OR A FINE NOT TO EXCEED \$1,000 (SECTION 489.127 FLORIDA STATUTES).

FEE SIMPLE TITLEHOLDER (if other than owner) Name _____ Address _____ City _____ State _____ Zip _____	MORTGAGE LENDER Name _____ Address _____ City _____ State _____ Zip _____
BONDING COMPANY Name _____ Address _____ City _____ State _____ Zip _____	ARCHITECT/ENGINEER/RESIDENTIAL PLANS CERTIFIER I CERTIFY THAT THE PLANS ACCOMPANYING THIS DOCUMENT MEET ALL REQUIREMENTS PERTAINING TO BUILDING CONSTRUCTION IN THE CITY OF LAKE WORTH. Name _____ Signature _____ Address _____ City _____ State _____ Zip _____ Phone () _____ Cell () _____ Fax () _____

APPLICATION IS HEREBY MADE TO OBTAIN A PERMIT TO DO THE WORK AND INSTALLATIONS AS INDICATED. I CERTIFY THAT NO WORK OR INSTALLATION HAS COMMENCED PRIOR TO THE ISSUANCE OF A PERMIT AND THAT ALL WORK WILL BE PERFORMED TO MEET THE STANDARDS OF ALL LAWS REGULATING CONSTRUCTION IN THIS JURISDICTION. I UNDERSTAND THAT A SEPARATE PERMIT MUST BE ACQUIRED FOR ELECTRICAL WORK, PLUMBING, SIGNS, WELLS, POOLS, FURNACES, BOILERS, HEATERS, TANKS, ROOFING AND AIR CONDITIONERS, ETC.

OWNER'S AFFIDAVIT: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION & ZONING.

ALL SIGNATURES MUST BE ORIGINAL

Owner (Signature)  Print Name LAKE WORTH BEACH CRA	Contractor/Agent (Signature)  Print Name PAUL WELLER
STATE OF FLORIDA COUNTY OF PALM BEACH Sworn to (or affirmed) and subscribed to before me this <u>15TH</u> day of <u>FEBRUARY</u> 20 <u>23</u> by Owner or Agent, who has produced the following identification _____ or who is personally known to me.  Signature of Notary SUZANNE GUZZETTI Print Name of Notary	STATE OF FLORIDA COUNTY OF PALM BEACH Sworn to (or affirmed) and subscribed to before me this <u>15TH</u> day of <u>FEBRUARY</u> 20 <u>23</u> by Contractor, who has produced the following identification _____ or who is personally known to me.  Signature of Notary SUZANNE GUZZETTI Print Name of Notary



Building Division | Department for Community Sustainability
Lake Worth Beach | 1900 2nd Avenue North | Lake Worth, FL 33461





City of
**Lake Worth
Beach**
FLORIDA™

APPROVED

05/04/2023

BUILDING DIVISION
1900 2ND AVENUE NORTH
LAKE WORTH BEACH, FL 33460
561-586-1647

Florida HVAC Efficiency Card Form

Required for REPLACEMENT of mechanical equipment.

Property Address: 17 S M St, Lake Worth, FL 33460

AIR CONDITIONING SYSTEM

SEER: 15.6

EER: _____

DOE covered products are central, air-source, one-phase systems having capacities under 65,000 BTUH

REPLACEMENT SYSTEM TECHNICAL INFORMATION

Manufacturer Lennox

Air Handler Model No. CBA27UHE-036

Condenser Unit Model No. EL17XC1-036

Voltage 240

Voltage 240

Heat Strip 7.5 KW

Size tons 3

Min. Circuit Ampacity 20

Min. Circuit Ampacity 17.4

HACR Breaker / Fuse Size

HACR Breaker / Fuse Size

Min. 20 Max 20

Min. 17.4 Max 30

Wire Size 6G A.W.G.

Wire Size 10G A.W.G.

EXISTING SYSTEM TECHNICAL INFORMATION

Manufacturer Lennox

Air Handler Model No. CBX27UH-036

Condenser Unit Model No. ML14XC-036

Voltage 240

Voltage 240

Heat Strip 10KW

Size tons 3

Min. Circuit Ampacity 20

Min. Circuit Ampacity 17.4

HACR Breaker / Fuse Size

HACR Breaker / Fuse Size

Min. 20 Max 20

Min. 17.4 Max 30

Wire Size 6G A.W.G.

Wire Size 10G A.W.G.

I, hereby certify that information entered on this form is the accurate representation of the systems installed.

Signature of Applicant [Signature]

Date 2/15/2023

REVIEWED TO THE BEST OF MY KNOWLEDGE AND
BELIEF FOR CONFORMITY WITH FLORIDA BUILDING
CODES AND OTHER APPLICABLE CODES AND REGULATIONS
ISSUANCE OF THIS PERMIT SHALL NOT CONSTITUTE
PERMISSION TO VIOLATE BUILDING, ZONING OR LICENSING
REQUIREMENTS
REVIEWED BY BRIAN EISENBERGER PX4072

ALL ELECTRIC WORK TO COMPLY
WITH UTILITY DEPT. AND NEC
CODES AND ARE SUBJECT TO
ELECTRICAL INSPECTOR
APPROVAL

No equipment shall
be placed in the
setback area

Certificate of Product Ratings

AHRI Certified Reference Number : 208843700 Date : 02-16-2023 Model Status : Active

AHRI Type : RCU-A-CB (Split System: Air-Cooled Condensing Unit, Coil with Blower)

Series : ELITE EL17XC1 SERIES

Outdoor Unit Brand Name : LENNOX

Outdoor Unit Model Number (Condenser or Single Package) : EL17XC1-036-230A**

Indoor Unit Model Number (Evaporator and/or Air Handler) : CBA27UHE-036-230*+TDR

Region : All (AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, HI, ID, IL, IA, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WV, WI, WY, U.S. Territories)

Region Note : Central air conditioners manufactured prior to January 1, 2015 are eligible to be installed in all regions until June 30, 2016. Beginning July 1, 2016 central air conditioners can only be installed in region(s) for which they meet the regional efficiency requirement.

The manufacturer of this LENNOX product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh : 36000

SEER : 16.60

EER (A2) - Single or High Stage (95F) : 13.50

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2023, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (AFull) - Single or High Stage (95F), btuh : 34600

SEER2 : 15.60

EER2 (AFull) - Single or High Stage (95F) : 13.00

REVIEWED TO THE BEST OF MY KNOWLEDGE AND BELIEF FOR CONFORMITY WITH FLORIDA BUILDING CODES AND OTHER APPLICABLE CODES AND REGULATIONS. ISSUANCE OF THIS PERMIT SHALL NOT CONSTITUTE PERMISSION TO VIOLATE BUILDING, ZONING OR LICENSING REQUIREMENTS.
REVIEWED BY BRIAN EISENBERGER PX4072

ALL ELECTRIC WORK TO COMPLY WITH UTILITY DEPT. AND NEC CODES AND ARE SUBJECT TO ELECTRICAL INSPECTOR APPROVAL

No equipment shall be placed in the setback area

†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced. "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRI.net.org for more information about updated energy efficiency metrics.

DISCLAIMER

AHRI does not endorse the product(s) listed on this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed on this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data listed on this Certificate. Certified ratings are valid only for models and configurations listed in the directory at www.ahridirectory.org.

TERMS AND CONDITIONS

This Certificate and its contents are proprietary products of AHRI. This Certificate shall only be used for individual, personal and confidential reference purposes. The contents of this Certificate may not, in whole or in part, be reproduced; copied; disseminated; entered into a computer database; or otherwise utilized, in any form or manner or by any means, except for the user's individual, personal and confidential reference.

CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom right.

©2023 Air-Conditioning, Heating, and Refrigeration Institute

CERTIFICATE NO.:

133210556454306873



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MIAMI TECH, INC.

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

ALUMINUM TIE-DOWN CLIP

APPROVED

SIDE VIEW TYP 05/04/2023

ALL OTHER CLIPS SIMILAR
VARYING LENGTH ONLY

REVIEWED TO THE BEST OF MY KNOWLEDGE AND
BELIEF FOR CONFORMITY WITH FLORIDA BUILDING
CODES AND OTHER APPLICABLE CODES AND REGULATIONS
ISSUANCE OF THIS PERMIT SHALL NOT CONSTITUTE
PERMISSION TO VIOLATE BUILDING, ZONING OR LICENSING
REQUIREMENTS
REVIEWED BY BRIAN EISENBERGER PX4072

DESIGN NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH ASCE 7-16 AND THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) 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: (OC)₁₀₀ = 1.90 WITHIN THE HVHZ & OUTSIDE THE HVHZ, (OC)₁₀₀ = 1.5 FOR ALL LOCATIONS (CONCURRENT).
2. ALL OTHER DESIGN VARIABLES ARE IN ACCORDANCE WITH ASCE 7 CHAPTERS 26 & 28.
3. 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.
5. NO 25-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
6. DESIGN IS BASED ON CLIENT PROVIDED PRODUCT AND DIE SHEETS FROM TEST REPORT PROJECT #11-6256 BY PENETRATION 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 F_y ≥ 28 KSI OR BETTER.

GENERAL NOTES:

1. 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.
2. 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 1/2" OR GREATER STAINLESS STEEL 410 UNLESS NOTED OTHERWISE. ANCHORS REFERRED TO HEREIN SHALL BE E600 BRAND, STAINLESS STEEL ONLY, INSTALLED TO 3000 PSI NEN CONCRETE. SEE ANCHOR TO HOST SCHEDULE FOR ANCHOR REQUIREMENTS. ALL FASTENERS SHALL HAVE APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTROLYSIS.
4. 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.
5. 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 WIND SPEEDS USED IN THIS APPROVAL, SEE ASCE 7.

VISIT EALC.IO/26320

FOR SITE SPECIFIC VARIATIONS
OR MORE INFORMATION ABOUT THIS DOCUMENT
OR SCAN THIS QR CODE
VISIT ENGINEERINGEXPRESS.COM/MIAMITECH
FOR ADDITIONAL PLANS, REPORTS & RESOURCES



FRANK BERNARDO, PE
PE# 0846549 CA# 1905
7/09/20



ENGINEERING
EXPRESS
CORPORATE OFFICE
160 SW 12th AVE, SUITE 106
DEERFIELD BEACH, FL 33442
TAMINGENGINEERINGPRESS.COM
ENGINEERINGEXPRESS.COM

MIAMI TECH, INC.
3611 NW 74TH ST
MIAMI, FL
(305) 693-7054

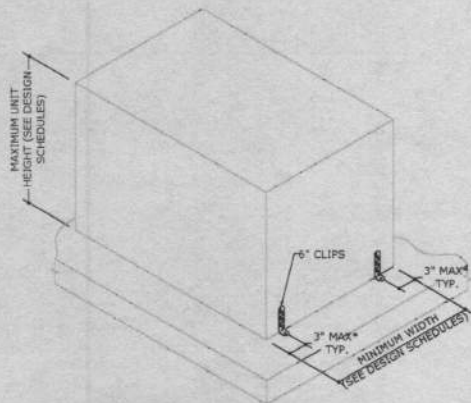
MIAMI TECH CLIP TIE-DOWN CLIP CERTIFICATIONS
FBC 7TH EDITION (2020) PRODUCT APPROVAL
FL 19731.1

REVISIONS	DATE	DESCRIPTION
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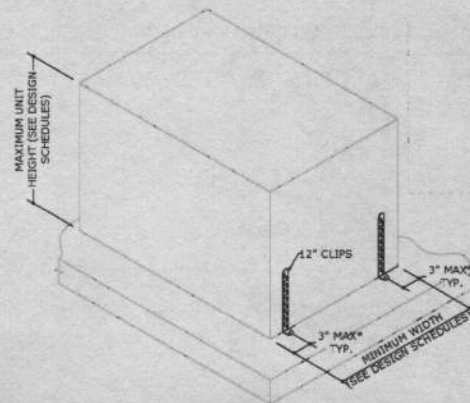
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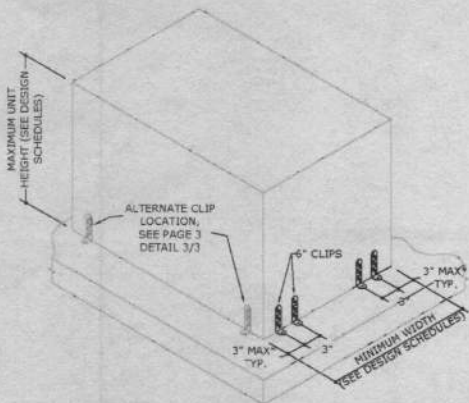


C1 CONNECTION TYPE C1
 1"x6" CLIP - UTILIZE (1) AT EACH CORNER FOR A TOTAL OF (4) PER UNIT
 NOTE: ALSO APPLICABLE FOR CLIP 4" LONG

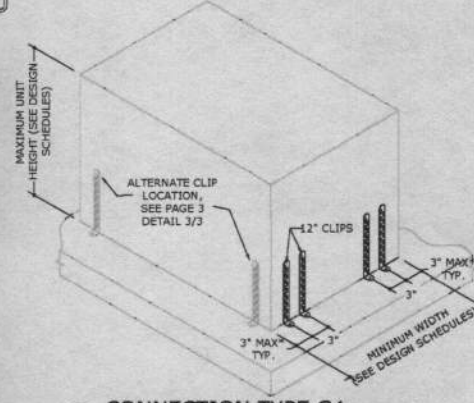


C3 CONNECTION TYPE C3
 1"x12" CLIP - UTILIZE (1) AT EACH CORNER FOR A TOTAL OF (4) PER UNIT
 NOTE: ALSO APPLICABLE FOR CLIPS 8" & 10" LONG

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



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



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

ALUMINUM TIE-DOWN CLIP

MIAMI TECH, INC.
 3611 NW 74TH ST
 MIAMI, FL
 (305) 693-7054

MIAMI TECH QJTD TIE-DOWN CLIP CERTIFICATIONS
 (FBC 7TH EDITION (2020) PRODUCT APPROVAL
 PL19721.1

FRANK BERNARDO, PE
 PER 0046540 CAG 9985
 7/09/20

ENGINEERING
 CORPORATE OFFICE
 160 SW 25TH AVE SUITE 105
 DEERFIELD BEACH, FL 33442
 (904) 994-8888 | (888) 366-9999
 TRANSMISSIONS@BERNARDOPRESS.COM
 ENGINEERING@BERNARDOPRESS.COM

REVISION	DATE	BY	CHKD	APPD	DESCRIPTION
1	7/9/20	FB	FB	FB	ISSUED FOR CONSTRUCTION

20-26320

SCALE: N.T.S.

2

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ATTACHMENT TO STAND

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

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

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

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.

(1) OR (2) CLIPS PER DETAILS C1 THROUGH C4 AND SHEET 4
 FASTEN CLIPS TO UNIT AND STAND PER SHEET 4
 1-BEAM

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

FRANK BERNARDO, PE
 PE# 0046549 CAP 1995
 7/09/20

ENGINEERING EXPERTS
 CORPORATE OFFICE
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 FRANK@ENGINEERINGEXPRESS.COM
 ENGINEERINGEXPRESS.COM

MIAMI TECH, INC.
 3611 NW 74TH ST
 MIAMI, FL
 (305) 693-7054

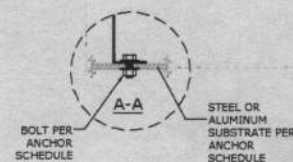
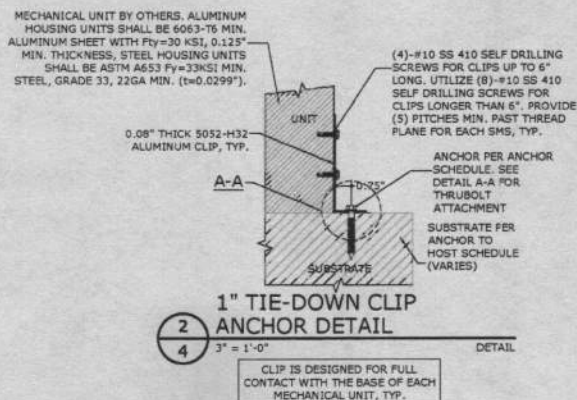
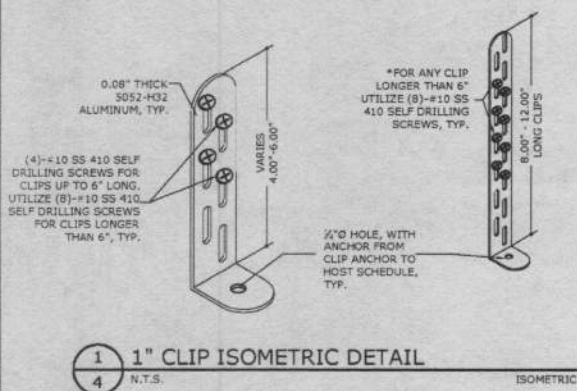
MIAMI TECH GUID TIE-DOWN CLIP CERTIFICATIONS
 FBC 7TH EDITION (2020) PRODUCT APPROVAL
 FL#19731.1

REVISIONS	DATE	BY	CHKD	DATE	BY	CHKD
1	07/09/20	FRANK BERNARDO	FRANK BERNARDO	07/09/20	FRANK BERNARDO	FRANK BERNARDO

20-26320

SCALE: N.T.S.

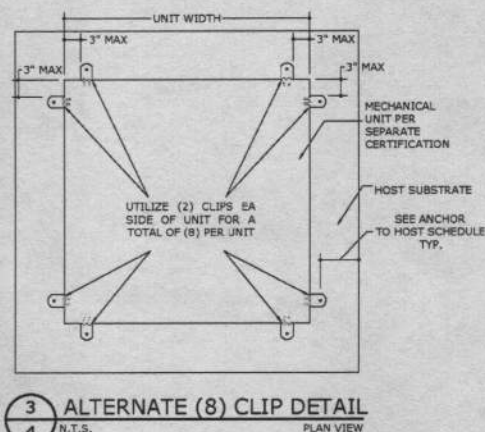
3



ANCHOR TO HOST SCHEDULE:

SUBSTRATE	DESCRIPTION
CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-1/4" SAE STAINLESS STEEL 410 DEWALT ULTRACON, 1/2" 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 TO BOTTOM 55 OD 1", 1/2" MINIMUM EDGE DISTANCE TO METAL EDGE.
STEEL: (0.125" MIN. THICK, 80 KSI MIN. STEEL)	(1)-#14 SAE STAINLESS STEEL BOLT 410 WITH NUT AND WASHER TOP TO BOTTOM 55 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



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

ALUMINUM TIE-DOWN CLIP

FRANK SERRANO, PE
PE# 0046549 CAJ 9985
7/09/20



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REMARKS	ORIGIN	CHKD	DATE
1. FILE	LAO	TSB	20/09/18
2. NO OF GOOD VALS	LAO	PLB	07/11/18
3. NO OF DEFECTIVE	LAO	PLB	09/11/17
4. NO OF DEFECTIVE	CB	RNNH	04/09/09

20-26320

[illegible]

4

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	N/A	H ≤ 40 FT	N/A	H ≤ 40 FT
9 FT²	36" MAX	27" MIN	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT
4 FT²	48" MAX	36" MIN	AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT
6 FT²			N/A	H ≤ 140 FT	N/A	H ≤ 140 FT
9 FT²			N/A	H ≤ 15 FT	N/A	H ≤ 15 FT
12 FT²			N/A	AT GRADE	N/A	AT GRADE
16 FT²	60" MAX	48" MIN	N/A	N/A	N/A	N/A
20 FT²			N/A	N/A	N/A	N/A
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 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 ≤ 15 FT	N/A	H ≤ 15 FT
9 FT²	36" MAX	27" MIN	N/A	AT GRADE	N/A	AT GRADE
4 FT²	48" MAX	36" MIN	AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT
6 FT²			N/A	H ≤ 60 FT	N/A	H ≤ 80 FT
9 FT²			N/A	AT GRADE	N/A	AT GRADE
12 FT²			N/A	AT GRADE	N/A	AT GRADE
16 FT²	60" MAX	48" MIN	N/A	N/A	N/A	N/A
20 FT²			N/A	N/A	N/A	N/A
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	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

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	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

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7/09/20

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MIAMI TECH QUTD TIE-DOWN CLIP CERTIFICATIONS
FNC 7TH EDITION (2020) PRODUCT APPROVAL
FLS19231.1

DATE: 09/09/20
LAC: TSB
WORK: FLB - OTHERS
PROJECT: 20-26320
REV: 000000
CB: N/A

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20-26320
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5

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 ft ²	29 in	15 in	H ≤ 15 FT	≤ 200 FT	H ≤ 15 FT	≤ 200 FT
9 ft ²	36 in	27 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
4 ft ²	48 in	36 in	≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT
6 ft ²	48 in	36 in	H ≤ 40 FT	≤ 200 FT	H ≤ 60 FT	≤ 200 FT
9 ft ²	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
12 ft ²	48 in	36 in	AT GRADE	≤ 120 FT	AT GRADE	≤ 120 FT
16 ft ²	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 ft ²	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

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 ft ²	29 in	15 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
9 ft ²	36 in	27 in	N/A	≤ 160 FT	AT GRADE	≤ 160 FT
4 ft ²	48 in	36 in	≤ 100 FT	≤ 200 FT	≤ 100 FT	≤ 200 FT
6 ft ²	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
9 ft ²	48 in	36 in	AT GRADE	≤ 180 FT	AT GRADE	≤ 180 FT
12 ft ²	48 in	36 in	N/A	H ≤ 40 FT	N/A	H ≤ 40 FT
16 ft ²	48 in	36 in	N/A	AT GRADE	N/A	AT GRADE
20 ft ²	60 in	48 in	N/A	AT GRADE	N/A	AT GRADE
25 ft ²	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 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

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 ft ²	29 in	15 in	N/A	≤ 200 FT	N/A	≤ 200 FT
9 ft ²	36 in	27 in	N/A	≤ 80 FT	N/A	≤ 80 FT
4 ft ²	48 in	36 in	H ≤ 40 FT	≤ 200 FT	H ≤ 40 FT	≤ 200 FT
6 ft ²	48 in	36 in	AT GRADE	≤ 200 FT	AT GRADE	≤ 200 FT
9 ft ²	48 in	36 in	N/A	≤ 80 FT	N/A	≤ 100 FT
12 ft ²	48 in	36 in	N/A	H ≤ 15 FT	N/A	H ≤ 15 FT
16 ft ²	48 in	36 in	N/A	AT GRADE	N/A	AT GRADE
20 ft ²	60 in	48 in	N/A	N/A	N/A	N/A
25 ft ²	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 ft ²	60 in	48 in	N/A	N/A	N/A	N/A

***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.

ALUMINUM TIE-DOWN CLIP

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MIAMI TECH QUITO CLIP CERTIFICATIONS
FBC 7TH EDITION (2020) PRODUCT APPROVAL
FL#197311

REVISION	DATE	BY	CHKD	APP'D
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