# BMP INTERNATIONAL, INC.

MECHANICAL UNIT STEEL TIE-DOWN CLIPS: AT-GRADE AND ROOFTOP MOUNTED APPLICATIONS VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN) NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

## DESIGN NOTES:

- 1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) OR EIGHTH EDITIION (2023) AS IS APPLICABLE. ALSO APPLICABLE FOR THE 2012, 2015, 2018, & 2021 EDITIONS OF THE INTERNATIONAL BUILDING & RESIDENTIAL CODES AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, & VA BUILDING CODES AS APPLICABLE. CODE ENFORCED COMPLIES WITH STATE OF SEAL AND IF MULTPLE VERSIONS ARE LISTED, THEN THE MOST STRINGENT CODE APPLIES. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY AND GOVERN. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING THE APPLICABLE EDITION OF ASCE 7 FOR SITE-SPECIFIC APPLICATIONS. THIS SYSTEM MAY BE USED WITHIN AND OUTSIDE THE HIGH-VELOCITY HURRICANE ZONE (HVHZ).
- 2. THE DESIGN CRITERIA USED TO CALCULATE THE ALLOWABLE ROOF-TOP HEIGHTS CONSIDERS FBC SECTION 1609 FOR NON-HVHZ AND SECTION 1620 FOR HVHZ & ASCE 7 SECTION 29 FOR INSTALLATIONS AT GRADE. (GC<sub>f</sub>)<sub>Lateral</sub>=1.90 WITHIN THE HVHZ & OUTSIDE THE HVHZ, (GC<sub>f</sub>)<sub>Uplift</sub>=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.

## **GENERAL NOTES:**

- 1. DESIGN IS BASED ON CLIENT PROVIDED PRODUCT AND DIE SHEETS FROM TEST REPORTS <u>#TEL 01970387A</u>, <u>#TEL 01970387B</u> BY TESTING EVALUATION LABORATORIES, INC.. NO SUBSTITUTIONS WITHOUT WRITTEN APPROVAL BY THIS ENGINEER SHALL BE PERMITTED.
- 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 #12 X ¾" OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. TAPCONS REFERRED TO HEREIN SHALL BE ITW BUILDEX BRAND, CARBON STEEL ONLY, INSTALLED TO 3000 PSI MIN CONCRETE. SEE ANCHOR SCHEDULE FOR ANCHOR REQUIREMENTS. ALL FASTENERS SHALL HAVE APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTROLYSIS.
- 4. ALL STEEL CLIPS SHALL BE ASTM A283 STEEL (GRADE D) WITH Fy=33 KSI OR BETTER. ALL STEEL MEMBERS SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL OR OTHER APPROVED PROTECTION. G90-RATED COATING REQUIRED FOR ALL COASTAL INSTALLATIONS.
- 5. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- 6. ENGINEER SEAL AFFIXED HERETO VALIDATE 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.
- 7. ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- 8. 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.
- 9. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 10. ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- 11. 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.
- 12. 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.
- 13. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- 14. 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.
- 15. 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.
- 16. FOR AN EXPLANATION OF EXPOSURE CATEGORIES THAT ACCOMPANY THE VUIL WIND SPEEDS USED IN THIS APPROVAL, SEE SECTION 26 OF ASCE 7.



## **TERMINOLOGY:**

THE FOLLOWING ABBREVIATIONS MAY APPEAR IN THIS APPROVAL:

"ADDTL" FOR "ADDITIONAL", "AHJ" FOR "AUTHORITY HAVING JURISDICTION", "ALUM" FOR "ALUMINUM, "ASD" FOR "ALLOWABLE STRESS DESIGN", "BO" FOR "BUILD-OUT", "CS" FOR "CARBON STEEL", "DIMS" FOR "DIMENSIONS", "EA." FOR "EACH", "E.D."/"EDGE"/"EDGE DIST." FOR "EDGE DISTANCE", "ELEV" FOR "ELEVATION", "EMBED" FOR "EMBEDMENT", "EQ"/"EQUIV." FOR "EQUIVALENT", "EXT" FOR "EXTERIOR", "FBC" FOR "FLORIDA BUILDING CODE", "ft" OR " ' " FOR "FEET", "G" FOR "SPECIFIC GRAVITY", "GA" FOR "GAUGE", "GALV" FOR "GALVANIZED", "GFB" FOR "GROUT-FILLED BLOCK", "GR" FOR "GRADE", "H" FOR "HEIGHT", "HOLLOW" FOR "HOLLOW BLOCK", "HORIZ" FOR "HORIZONTAL", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "in" OR " '' " FOR "INCHES", "INT" FOR "INTERIOR", "KSI" FOR "1,000 lb / in<sup>2</sup>", "L" FOR "LENGTH", "LB" FOR "POUND", "MAX" FOR "MAXIMUM, "MIN" FOR "MINIMUM", "N.T.S." FOR "NOT TO SCALE", "O.C." FOR "ON-CENTER", "P.E." FOR "PROFESSIONAL ENGINEER", "PERP" FOR "PERPENDICULAR", "PSF" FOR "POUNDS PER SQUARE FOOT (Ib/ft2)", "PSI" FOR "POUNDS PER SQUARE INCH (Ib/in2)", "QTY FOR "QUANTITY", "REF." FOR "REFERENCE", "SCHED." FOR "SCHEDULE", "SDS" FOR "SELF-DRILLING SCREWS", "SMS" FOR "SHEET METAL SCREWS", "SPECS" FOR "SPECIFICATIONS", "SS" FOR "STAINLESS STEEL", "SUB" FOR "SUBMITTAL", "TAS" FOR "TESTING APPLICATION STANDARD", "TYP." FOR "TYPICAL" "ULT" FOR "ULTIMATE LOADS", "U.N.O." FOR "UNLESS NOTED OTHERWISE", "UTS" OR "Fu" FOR "ULTIMATE TENSILE STRENGTH/STRESS", "VERT" FOR "VERTICAL", "W" FOR "WIDTH", "WLL" FOR "WORKING LOAD LIMIT", "W/" FOR "WITH", "W/O" FOR "WITHOUT", "YS" FOR "YIELD STRENGTH", "#" FOR "NUMBER", "&' FOR "AND", AND "Ø" FOR "DIAMETER".

VISIT <u>ECALC.IO/GLOSSARY</u> OR CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.





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

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



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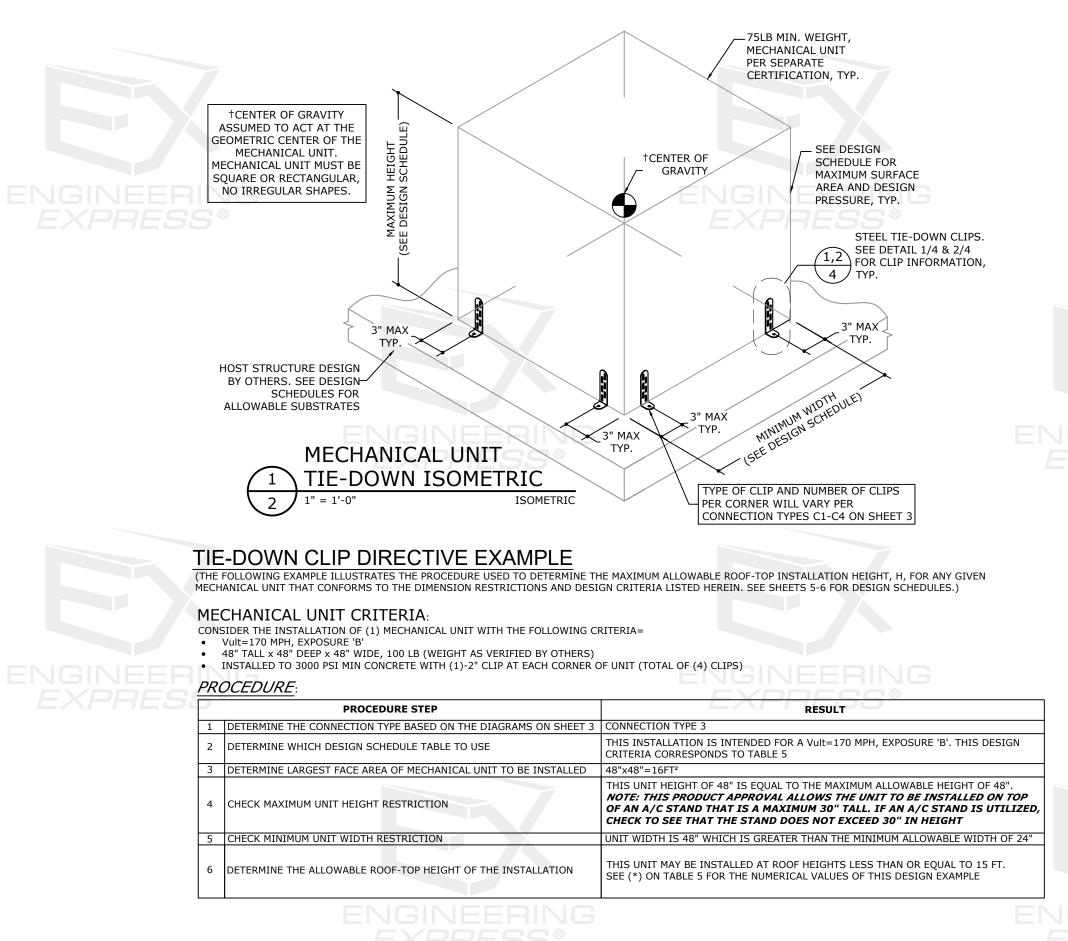
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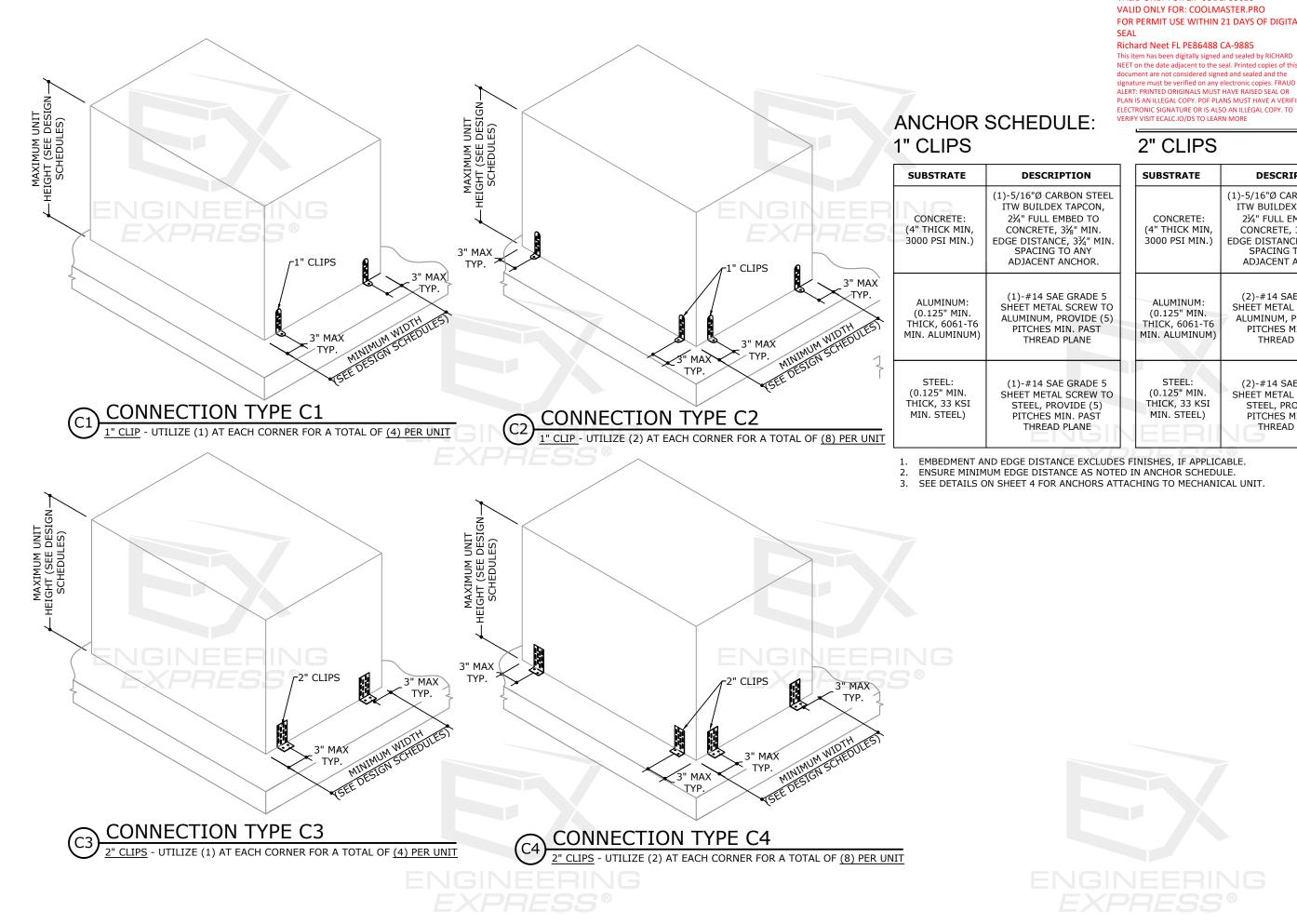
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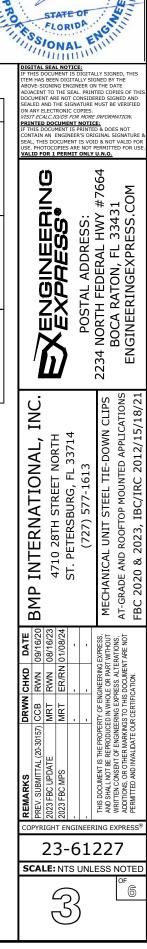
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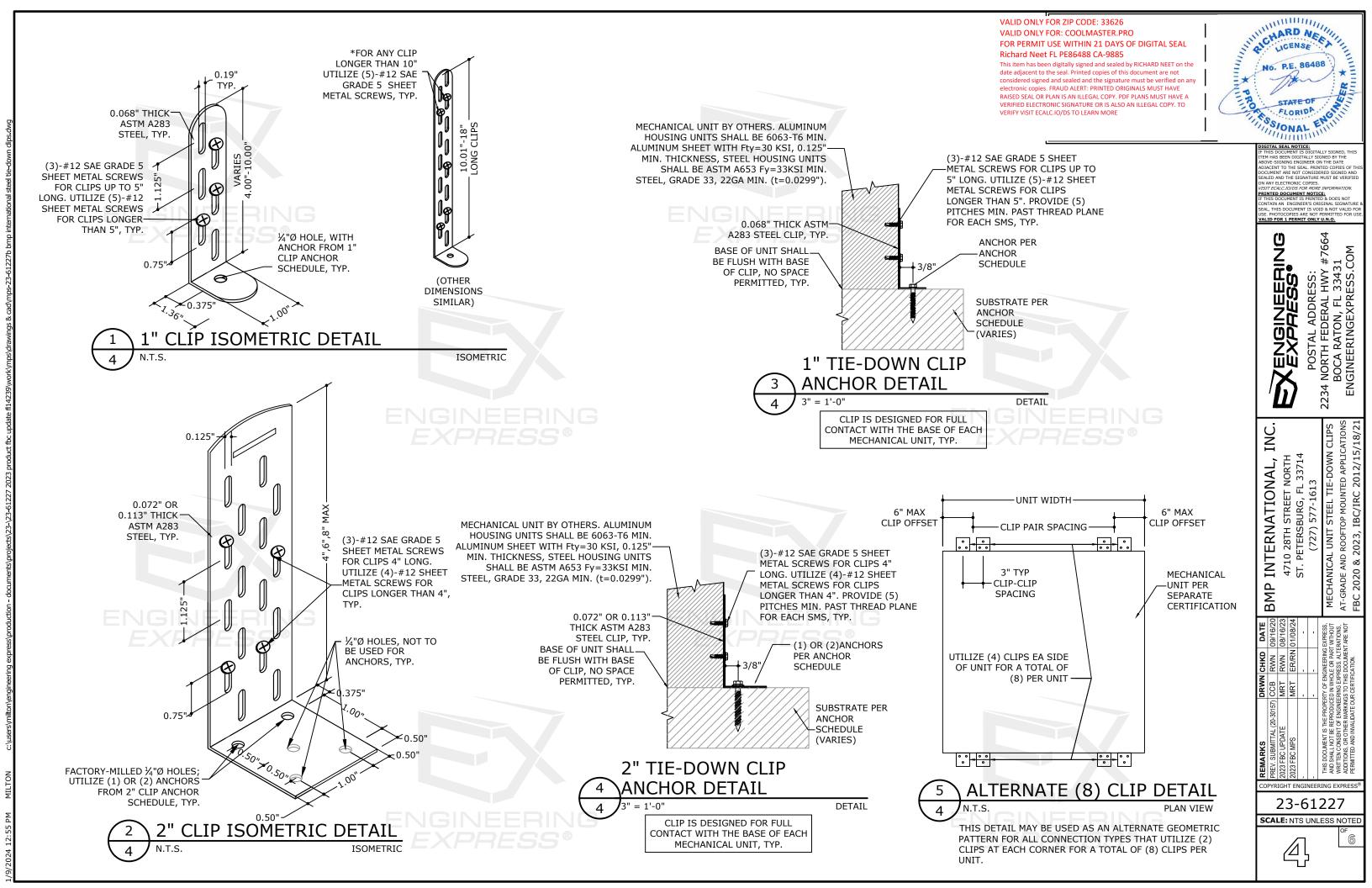
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SUBSTRATE	DESCRIPTION
CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-5/16"Ø CARBON STEEL ITW BUILDEX TAPCON, 2¼" FULL EMBED TO CONCRETE, 3½" MIN. EDGE DISTANCE, 3¼" MIN. SPACING TO ANY ADJACENT ANCHOR.
ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN. ALUMINUM)	(2)-#14 SAE GRADE 5 SHEET METAL SCREWS TO ALUMINUM, PROVIDE (5) PITCHES MIN. PAST THREAD PLANE
STEEL: (0.125" MIN. THICK, 33 KSI MIN. STEEL)	(2)-#14 SAE GRADE 5 SHEET METAL SCREWS TO STEEL, PROVIDE (5) PITCHES MIN. PAST THREAD PLANE
	(4" THICK MIN, 3000 PSI MIN.) ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN. ALUMINUM) STEEL: (0.125" MIN. THICK, 33 KSI



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## TABLE 1: Vult=175 MPH, EXPOSURE C

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

			ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE					
			TIE	E-DOWN CONF	IGURATION T	/PE		
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	NG	C2	C3	C4		
6 FT <sup>2</sup>	24" MAX	12" MIN	N/A	H ≤ 100 FT	AT GRADE	H ≤ 200 FT		
9 FT <sup>2</sup>	32" MAX	15" MIN	N/A	H ≤ 15 FT	AT GRADE	H ≤ 200 FT		
4 FT <sup>2</sup>			AT GRADE	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT		
6 FT <sup>2</sup>			N/A	H ≤ 200 FT	H ≤ 30 FT	H ≤ 200 FT		
9 FT <sup>2</sup>	48" MAX	24" MIN	N/A	H ≤ 40 FT	AT GRADE	H ≤ 200 FT		
12 FT <sup>2</sup>			N/A	AT GRADE	N/A	H ≤ 200 FT		
16 FT <sup>2</sup>			N/A	AT GRADE	N/A	H ≤ 60 FT		
20 FT <sup>2</sup>			N/A	AT GRADE	N/A	H ≤ 60 FT		
25 FT <sup>2</sup>	COLLARY	48" MIN	N/A	N/A	N/A	H ≤ 15 FT		
30 FT <sup>2</sup>	60" MAX	40 IVIIIN	N/A	N/A	N/A	AT GRADE		
36 FT <sup>2</sup>			N/A	N/A	N/A	AT GRADE		

\*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.



MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACEUNIT HEIGH HEIGH HEIGH HEIGH HEIGH HEIGH HEIGH HEIGH HEIGH SURFT26 FT2 6 FT2 9 FT2 16 FT2 16 FT2 20 FT2 20 FT2 20 FT2 20 FT2 60" M. 30 FT2 36 FT2*THIS TABLE IS PERMISSIBLE T MIAMI-DADE COUNTIES. CHEC OF THIS TABLE WITHIN CERTA
SURFACE AREA OF UNIT'S LARGEST FACE         UNIT HEIGH           6 FT <sup>2</sup> 24" M.           9 FT <sup>2</sup> 32" M.           4 FT <sup>2</sup> 48" M.           9 FT <sup>2</sup> 48" M.           12 FT <sup>2</sup> 48" M.           12 FT <sup>2</sup> 60" M.           30 FT <sup>2</sup> 60" M.           36 FT <sup>2</sup> 40" M.
9 FT <sup>2</sup> 32" M.           4 FT <sup>2</sup> 6           6 FT <sup>2</sup> 48" M.           12 FT <sup>2</sup> 48" M.           12 FT <sup>2</sup> 60" M.           20 FT <sup>2</sup> 60" M.           30 FT <sup>2</sup> 60" M.           36 FT <sup>2</sup> 70 FT <sup>2</sup> 36 FT <sup>2</sup> 60" M.
4 FT²           6 FT²           9 FT²           12 FT²           16 FT²           20 FT²           20 FT²           30 FT²           36 FT²           THIS TABLE IS PERMISSIBLE T           MIAMI-DADE COUNTIES. CHEC
6 FT <sup>2</sup> 48" M.           9 FT <sup>2</sup> 48" M.           12 FT <sup>2</sup> 16 FT <sup>2</sup> 16 FT <sup>2</sup> 60" M.           30 FT <sup>2</sup> 60" M.           36 FT <sup>2</sup> 115 TABLE IS PERMISSIBLE T           IAMI-DADE COUNTIES. CHECK         110 MI
9 FT <sup>2</sup> 48" M.           12 FT <sup>2</sup> 16 FT <sup>2</sup> 16 FT <sup>2</sup> 60" M.           30 FT <sup>2</sup> 60" M.           36 FT <sup>2</sup> HIS TABLE IS PERMISSIBLE T           AMI-DADE COUNTIES. CHECK         600 M.
12 FT²           16 FT²           20 FT²           25 FT²           30 FT²           36 FT²           HIS TABLE IS PERMISSIBLE T           AMI-DADE COUNTIES. CHEC
16 FT <sup>2</sup> 20 FT <sup>2</sup> 25 FT <sup>2</sup> 30 FT <sup>2</sup> 36 FT <sup>2</sup> HIS TABLE IS PERMISSIBLE T           AMI-DADE COUNTIES. CHEC
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ABLE 4 : Vult=17
MAXIMUM SURFACE AREA OF UNIT UNIT'S LARGEST HEIGH FACE
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URFACE AREA OF UNIT UNIT'S LARGEST HEIGH FACE
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JRFACE AREA OF JNIT'S LARGEST FACEUNIT HEIGH $6 \text{ ft}^2$ 24 ir $9 \text{ ft}^2$ 32 ir
JRFACE AREA OF JNIT'S LARGEST FACE 6 ft <sup>2</sup> 24 ir 9 ft <sup>2</sup> 32 ir 4 ft <sup>2</sup>
$\begin{array}{c} JRFACE \ AREA \ OF \\ JNIT'S \ LARGEST \\ FACE \\ \hline \\ $
$\begin{array}{c} \text{JRFACE AREA OF} \\ \text{JNIT'S LARGEST} \\ \text{FACE} \\ \hline \\ $
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JRFACE AREA OF JNIT'S LARGEST FACEUNIT HEIGH HEIGH $6 ft^2$ 24 ir $9 ft^2$ 32 ir $4 ft^2$ 32 ir $6 ft^2$ 48" M. $12 ft^2$ 16 ft^2 $16 ft^2$ 20 ft^2 $25 ft^2$ 25 ft^2
URFACE AREA OF JNIT'S LARGEST FACEUNIT HEIGH HEIGH $6 ft^2$ $24 ir$ $9 ft^2$ $32 ir$ $4 ft^2$ $6 ft^2$ $9 ft^2$ $48"$ M. $12 ft^2$ $16 ft^2$ $20 ft^2$ $48 r^2$

# TABLE 3: Vult=170 MPH, EXPOSURE C

			ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE				
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH		C2	C3	C4	
6 ft <sup>2</sup>	24 in	12 in	N/A	≤ 140 FT	AT GRADE	≤ 200 FT	
9 ft²	32 in	15 in	N/A	H ≤ 15 FT	AT GRADE	≤ 200 FT	
4 ft <sup>2</sup>			AT GRADE	≤ 200 FT	N/A	≤ 200 FT	
6 ft²			AT GRADE	≤ 200 FT	H ≤ 40 FT	≤ 200 FT	
9 ft²	48" MAX	24" MIN	N/A	> 60 FT	AT GRADE	≤ 200 FT	
12 ft <sup>2</sup>			N/A	AT GRADE	N/A	≤ 200 FT	
16 ft²			N/A	AT GRADE	N/A	≤ 80 FT	
20 ft <sup>2</sup>			N/A	AT GRADE	N/A	≤ 100 FT	
25 ft <sup>2</sup>	CO" MAX		N/A	N/A	N/A	H ≤ 30 FT	
30 ft <sup>2</sup>	60" MAX	48" MIN	N/A	N/A	N/A	AT GRADE	
36 ft <sup>2</sup>			N/A	N/A	N/A	AT GRADE	

\*AS AN EXAMPLE, THIS TABLE IS PERMISSIBLE TO BE USED WITHIN PALM BEACH COUNTY. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES.

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					F-TOP HEIGHT			ABOVE-SIGNING ENGINEER IS DIGITALLY SIGNED, BY ITEM HAS BEEN DIGITALLY SIGNED BY THE ABOVE-SIGNING ENGINEER ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF DOCUMENT ARE NOT CONSIDERED SIGNED AI
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH		-DOWN CONF	GURATION TY	C4		DOLONEM TAKE NUT CONSILIEVELY SIGNED AN SEALED AND THE SIGNED THE WEAT ON ANY ELECTRONIC COPIES. VISIT ECALCIDITS FOR MORE INFORMATION, PRINTED DOCUMENT MOTICE IF ONLY AN EXTERNIBULATION OF A STATE IF ONLY AN EXTERNIBULATION IS NOT ALL SEAL THIS DOCUMENT IS VOID & NOT YALL USE. PHOTOCOPIES ARE NOT PERMITTED FOR VALID FOR 1 PERMIT ONLY U.N.O.
6 FT <sup>2</sup>	24" MAX	12" MIN	N/A	H ≤ 40 FT	AT GRADE	H ≤ 200 FT		<b>(1)</b> <sup>12</sup>
9 FT <sup>2</sup>	32" MAX	15" MIN	N/A	AT GRADE	N/A	H ≤ 200 FT		
4 FT <sup>2</sup>		[ '	AT GRADE	H ≤ 200 FT	H ≤ 160 FT	H ≤ 200 FT		
6 FT <sup>2</sup>	]	1	N/A	H ≤ 200 FT	AT GRADE	H ≤ 200 FT		
9 FT <sup>2</sup>	48" MAX	24" MIN	N/A	H ≤ 15 FT	AT GRADE	H ≤ 200 FT		HESS: 334.55
12 FT <sup>2</sup>	<u> </u>	1	N/A	AT GRADE	N/A	H ≤ 140FT		
16 FT <sup>2</sup>		<u> </u> '	N/A	N/A	N/A	H ≤ 15 FT		ADDRESS BADRESS BERAL HW NN, FL 334
20 FT <sup>2</sup>	_	1	N/A	N/A	N/A	H ≤ 30 FT		<b>XENGINEER</b> POSTAL ADDRESS: NORTH FEDERAL HWY BOCA RATON, FL 334. GINFERTINGEYDRESS
25 FT <sup>2</sup>	60" MAX	48" MIN	N/A	N/A	N/A	AT GRADE		POSTAL DRTH FE DRTH FE DRTH FE
30 FT <sup>2</sup>			N/A	N/A	N/A	AT GRADE		
36 FT <sup>2</sup>		<u>                                     </u>	N/A	N/A	N/A	N/A		
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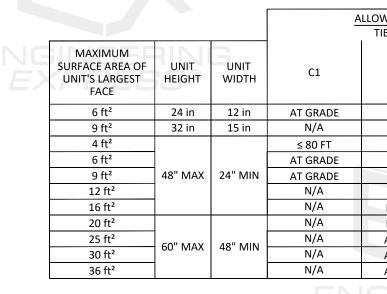
## TABLE 5 : Vult=140 MPH, EXPOSURE B

(FOR USE WITH A RISK CATEGORY II STRUCTURE)

				ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE					
	MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH		C2	C3	C4		
	6 ft²	24 in	12 in	H ≤ 15 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT		
	9 ft²	32 in	15 in	AT GRADE	≤ 200 FT	> 60 FT	≤ 200 FT		
	4 ft <sup>2</sup>			≤ 200 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT		
	6 ft²			H ≤ 40 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT		
	9 ft²	48" MAX	24" MIN	AT GRADE	≤ 200 FT	≤ 120 FT	≤ 200 FT		
	12 ft²			AT GRADE	≤ 200 FT	H ≤ 40 FT	≤ 200 FT		
*	16 ft²			N/A	≤ 80 FT	H ≤ 15 FT	≤ 200 FT		
	20 ft <sup>2</sup>			N/A	≤ 100 FT	H ≤ 15 FT	≤ 200 FT		
	25 ft²	60" MAX	48" MIN	N/A	H ≤ 40 FT	AT GRADE	≤ 200 FT		
	30 ft <sup>2</sup>	UU IVIAA	40 11111	N/A	H ≤ 15 FT	AT GRADE	≤ 200 FT		
	36 ft²			N/A	AT GRADE	AT GRADE	≤ 120 FT		

## TABLE 6 : Vult=140 MPH, EXPOSURE C

(FOR USE WITH A RISK CATEGORY II STRUCTURE)





## TABLE 7 : Vult=140 MPH, EXPOSURE D

(FOR USE WITH A RISK CATEGORY II STRUCTURE)

			ALLOWABLE INSTALLATION ROOF HEIGHT TIE-DOWN CONFIGURATION TYPE					
MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	C1		$(P^{G}) = S$	RING BS <sup>4</sup>		
6 ft <sup>2</sup>	24 in	12 in	N/A	≤ 200 FT	H ≤ 30 FT	≤ 200 FT		
9 ft²	32 in	15 in	N/A	≤ 100 FT	AT GRADE	≤ 200 FT		
4 ft <sup>2</sup>			H ≤ 40 FT	≤ 200 FT	≤ 200 FT	≤ 200 FT		
6 ft²			AT GRADE	≤ 200 FT	≤ 200 FT	≤ 200 FT		
9 ft <sup>2</sup>	48" MAX	24" MIN	N/A	≤ 200 FT	H ≤ 15 FT	≤ 200 FT		
12 ft <sup>2</sup>			N/A	H ≤ 40 FT	AT GRADE	≤ 200 FT		
16 ft <sup>2</sup>			N/A	AT GRADE	N/A	≤ 200 FT		
20 ft <sup>2</sup>			N/A	AT GRADE	AT GRADE	≤ 200 FT		
25 ft <sup>2</sup>	60" MAX	48" MIN	N/A	AT GRADE	N/A	≤ 120 FT		
30 ft <sup>2</sup>	OU WAX	40 WIIN	N/A	N/A	N/A	H ≤ 40 FT		
36 ft <sup>2</sup>			N/A	N/A	N/A	AT GRADE		

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\*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.

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No. P.E. 86488 * STATE OF FLORIDA SJONAL EN
<b>ONAL</b> INV
DIGITAL SEAL NOTICE:

VABLE INSTALLATION ROOF HEIGHT								
E-DOWN CONFIGURATION TYPE								
C2	C3	C4						
≤ 200 FT	≤ 80 FT	≤ 200 FT						
≤ 180 FT	H ≤ 15 FT	≤ 200 FT						
≤ 200 FT	≤ 200 FT	≤ 200 FT						
≤ 200 FT	≤ 200 FT	≤ 200 FT						
≤ 200 FT	H ≤ 40 FT	≤ 200 FT						
≤ 100 FT	AT GRADE	≤ 200 FT						
H ≤ 15 FT	AT GRADE	≤ 200 FT						
H ≤ 30 FT	AT GRADE	≤ 200 FT						
AT GRADE	AT GRADE	≤ 200 FT						
AT GRADE	N/A	≤ 80 FT						
AT GRADE	N/A	H ≤ 30 FT						

