

STEP 1: DETERMINE WIND VELOCITY PER LOCATION, RISK, AND EXPOSURE

ASCE 7-10 & 7-16 ULT WIND VELOCITY TO ASD DESIGN PRESSURE AT GRADE CONVERSION CHART - HVHZ OR NON HVHZ									
EXAMPLE COUNTY	RISK		EXPOSURE		RISK		EXPOSURE		RISK
	I	C	D	II	C	D	III, IV	C	
FORT MYERS	145 MPH	29.4 PSF	35.6 PSF	160 MPH	35.8 PSF	43.4 PSF	175 MPH	42.8 PSF	51.9 PSF
PALM BEACH	150 MPH	31.5 PSF	38.1 PSF	170 MPH	40.4 PSF	49.0 PSF	180 MPH	45.3 PSF	54.9 PSF
BROWARD	156 MPH	34.0 PSF	41.2 PSF	170 MPH	40.4 PSF	49.0 PSF	180 MPH	45.3 PSF	54.9 PSF
MIAMI-DADE	165 MPH	38.1 PSF	46.1 PSF	175 MPH	42.8 PSF	51.9 PSF	186 MPH	48.4 PSF	58.6 PSF
MONROE	175 MPH	42.8 PSF	51.9 PSF	180 MPH	45.3 PSF	54.9 PSF	200 MPH	55.9 PSF	67.8 PSF
Kz (Exp C/D) (Table 26.10-1) =		0.85	1.03	Kd (Table 26.6-1) =		0.9	G (Section 26.11) =		0.85
Kzt (Section 26.8.2) =		1.0		Ke (Section 26.9) =		1	Cf (Table 29.4-1) =		1.4

NOTE: TABLE ABOVE INCLUDES A QUICK REFERENCE OF COMMON FLORIDA CONDITIONS (AT ULTIMATE DESIGN WIND VELOCITIES) FOR SITE-SPECIFIC CONDITIONS, CONSULT LOCAL BUILDING MUNICIPALITY. MAXIMUM DESIGN WIND PRESSURES AT GRADE PER SPECIFIED EXPOSURE REMAIN CONSTANT FOR ANY MAX WIND VELOCITY. FOR SITE-SPECIFIC WIND VELOCITY AND PRESSURE CONVERSIONS, SEE QR LINK PROVIDED BELOW.

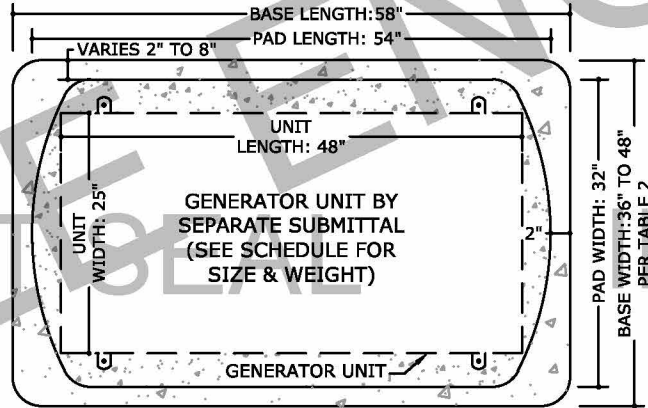
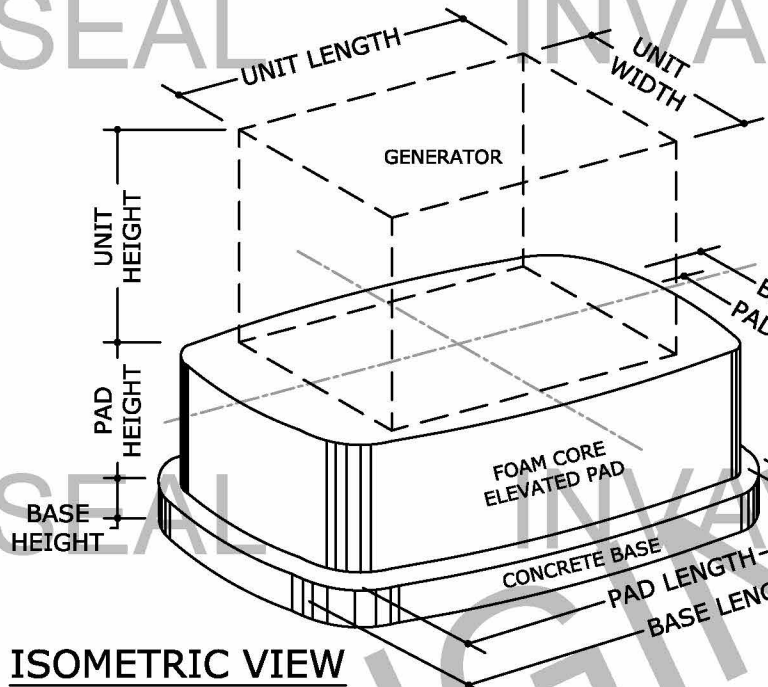
STEP 2: DETERMINE ALLOWABLE WIND PRESSURE PER CONCRETE PAD & UNIT

TABLE 2: ALLOWABLE LATERAL ASD PRESSURE FOR PAD / GENERATOR COMBINATION									
PAD & BASE			GENERATOR UNIT				DESIGN ALLOWANCES		
PAD + BASE HEIGHT, IN	BASE REQ'D WIDTH, IN	PAD + BASE WEIGHT, LB	L, IN	W, IN	H, IN	WT, LB	ALLOWABLE ASD PRESSURE	EQUIVALENT WIND	
12 in	36 in	1174 lbs	25	48	29	350	46.1 PSF	180 MPH	160 MPH
			25	48	29	400	47.6 PSF	180 MPH	165 MPH
			25	48	29	450	49.1 PSF	186 MPH	170 MPH
			25	48	29	500	50.6 PSF	190 MPH	170 MPH
			25	48	29	550	52.1 PSF	190 MPH	175 MPH
18 in	36 in	1372 lbs	25	48	29	600	53.6 PSF	195 MPH	175 MPH
			25	48	29	350	36.2 PSF	160 MPH	145 MPH
			25	48	29	400	37.3 PSF	160 MPH	145 MPH
			25	48	29	450	38.3 PSF	165 MPH	150 MPH
			25	48	29	500	39.4 PSF	165 MPH	150 MPH
24 in	40 in	1654 lbs	25	48	29	550	40.5 PSF	170 MPH	150 MPH
			25	48	29	600	41.5 PSF	170 MPH	156 MPH
			25	48	29	350	34.6 PSF	156 MPH	140 MPH
			25	48	29	400	35.4 PSF	156 MPH	140 MPH
			25	48	29	450	36.3 PSF	160 MPH	145 MPH
30 in	40 in	1851 lbs	25	48	29	500	37.1 PSF	160 MPH	145 MPH
			25	48	29	550	38.0 PSF	160 MPH	145 MPH
			25	48	29	600	38.9 PSF	165 MPH	150 MPH
			25	48	29	350	29.2 PSF	140 MPH	130 MPH
			25	48	29	400	29.8 PSF	145 MPH	130 MPH
36 in	44 in	2133 lbs	25	48	29	450	30.5 PSF	145 MPH	130 MPH
			25	48	29	500	31.1 PSF	145 MPH	135 MPH
			25	48	29	550	31.8 PSF	150 MPH	135 MPH
			25	48	29	600	32.5 PSF	150 MPH	135 MPH
			25	48	29	350	28.7 PSF	140 MPH	130 MPH
42 in	44 in	2330 lbs	25	48	29	400	29.3 PSF	140 MPH	130 MPH
			25	48	29	450	29.8 PSF	145 MPH	130 MPH
			25	48	29	500	30.4 PSF	145 MPH	130 MPH
			25	48	29	550	31.0 PSF	145 MPH	135 MPH
			25	48	29	600	31.6 PSF	150 MPH	135 MPH
48 in	48 in	2612 lbs	25	48	29	350	25.2 PSF	130 MPH	#N/A
			25	48	29	400	25.6 PSF	135 MPH	#N/A
			25	48	29	450	26.1 PSF	135 MPH	#N/A
			25	48	29	500	26.6 PSF	135 MPH	#N/A
			25	48	29	550	27.0 PSF	135 MPH	#N/A
			25	48	29	600	27.5 PSF	140 MPH	#N/A
			25	48	29	350	25.1 PSF	130 MPH	#N/A
			25	48	29	400	25.6 PSF	135 MPH	#N/A
			25	48	29	450	26.0 PSF	135 MPH	#N/A
			25	48	29	500	26.4 PSF	135 MPH	#N/A
			25	48	29	550	26.8 PSF	135 MPH	#N/A
			25	48	29	600	27.3 PSF	135 MPH	#N/A

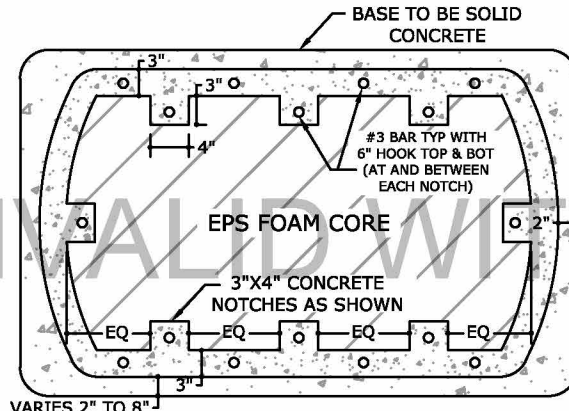
TABLE 2 NOTES:

- PAD + BASE WEIGHT CALCULATED BASED ON 107 PCF MIN LIGHTWEIGHT CONCRETE & 1.25 PCF EPS FOAM CORE.
- LIGHTWEIGHT CONCRETE MIN COMPRESSIVE STRENGTH TO BE $f'c=2,700$ PSI AT 28 DAYS.
- CONCRETE PAD + BASE HEIGHT ARE MAXIMUMS FOR RATINGS PROVIDED. (EX: RATINGS FOR 18 IN PAD ARE ALSO APPLICABLE FOR 13 IN TO 17 IN PADS GIVEN IDENTICAL CONSTRUCTION & MATERIALS).
- GENERATOR UNIT SIZE TO MATCH INFO SHOWN IN TABLE 2 (+/- 0.5 IN TOLERANCE).
- GENERATOR UNIT WEIGHT TO BE EQUAL OR GREATER THAN SHOWN FOR EACH RATING. (EX: 450 LB UNIT RATING APPLICABLE FOR UNITS 450 TO 499 LBS).
- GENERATOR'S MANUFACTURER SPECS TO BE PROVIDED WITH THIS MASTER PLAN SHEET FOR SUBMISSION & CERTIFICATION.
- FOR UNITS OR CONDITIONS REQUIRING GREATER ALLOWABLE PRESSURE, ADDITIONAL ENGINEERING MAY BE REQUIRED.

AMERICAST GENERATOR FOAM CORE, 12" TO 48" ELEVATED CONCRETE PAD (ON-GRADE APPLICATIONS ONLY)



PAD DIMENSIONS: PLAN VIEW



PAD SECTION & REINFORCEMENT PLAN VIEW

ALLOWABLE DESIGN PRESSURE

REQUIRED WIND LOAD DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED UNDER SEPARATE CERTIFICATION ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE-SPECIFIC LOAD REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE "ASD" CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.



DESIGN NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SIXTH & SEVENTH EDITION (2017 & 2020).
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- MAXIMUM DIMENSIONS AND WEIGHT OF GENERATORS UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN.
- THE AREA UNDER CONCRETE SLAB ON GROUND SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO INSTALLATION ON COMPACTED SOIL AS VERIFIED BY OTHERS. THESE CONCRETE PADS HAVE BEEN DESIGNED FOR A MINIMUM BEARING CAPACITY OF 2,000 PSF AND MINIMUM SUBGRADE MODULUS = 100 PCL. SHOULD OTHER CONDITIONS OR MATERIALS BE ENCOUNTERED, THE ENGINEER OF RECORD SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE WORK.
- SLIDING IS ASSUMED RESISTED BY 2" EMBEDMENT OF PAD IN GROUND ALONG WITH RESISTANCE FROM CONNECTED CABLING. NOMIAL SLIDING IS NOT ASSUMED A FAILURE CASE IN THIS DESIGN

GENERAL NOTES

- 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.
- ENGINEER SEAL AFFIXED HERETO VALIDATES 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 & APPELATE 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.15.
- NO FLOOD OR WATERPROOFING RATINGS OR CERTIFICATIONS ARE INTENDED
- HOLLOW PADS FOR USE WHERE APPLICABLE BY CODE. USE OF PADS MAY BE SUBJECT TO BUILDING DEPT APPROVAL
- WATER-TIGHTNESS OF EXISTING FINISHES 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.
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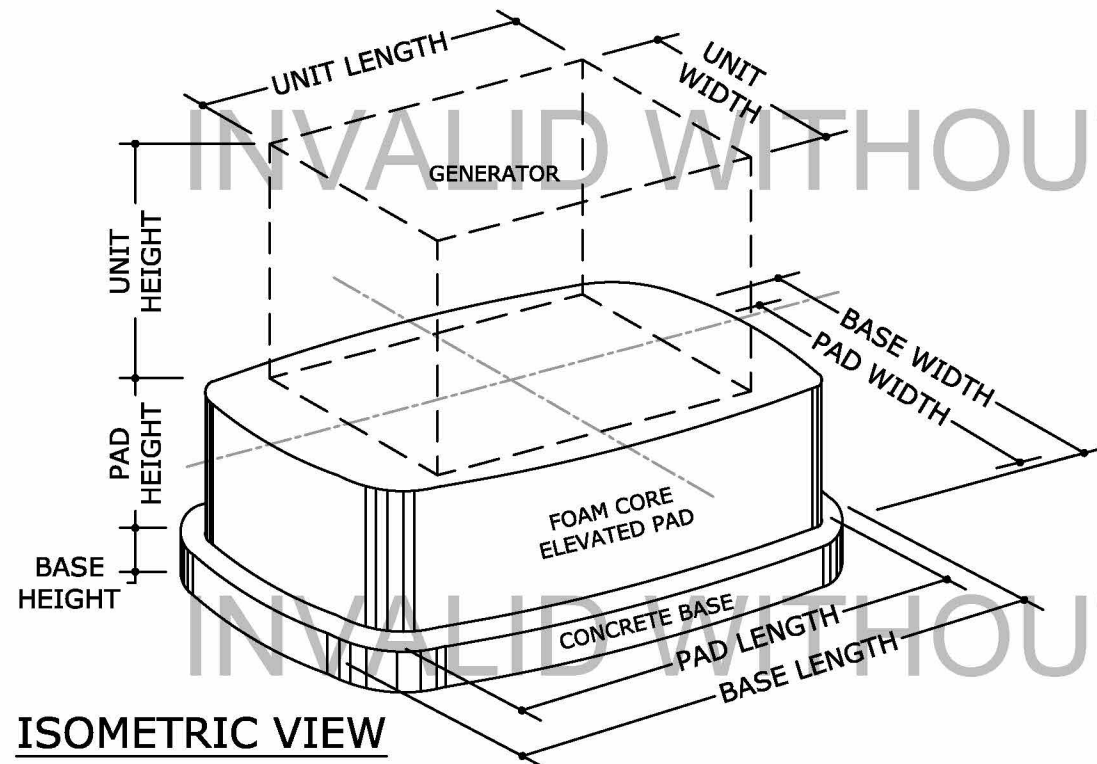
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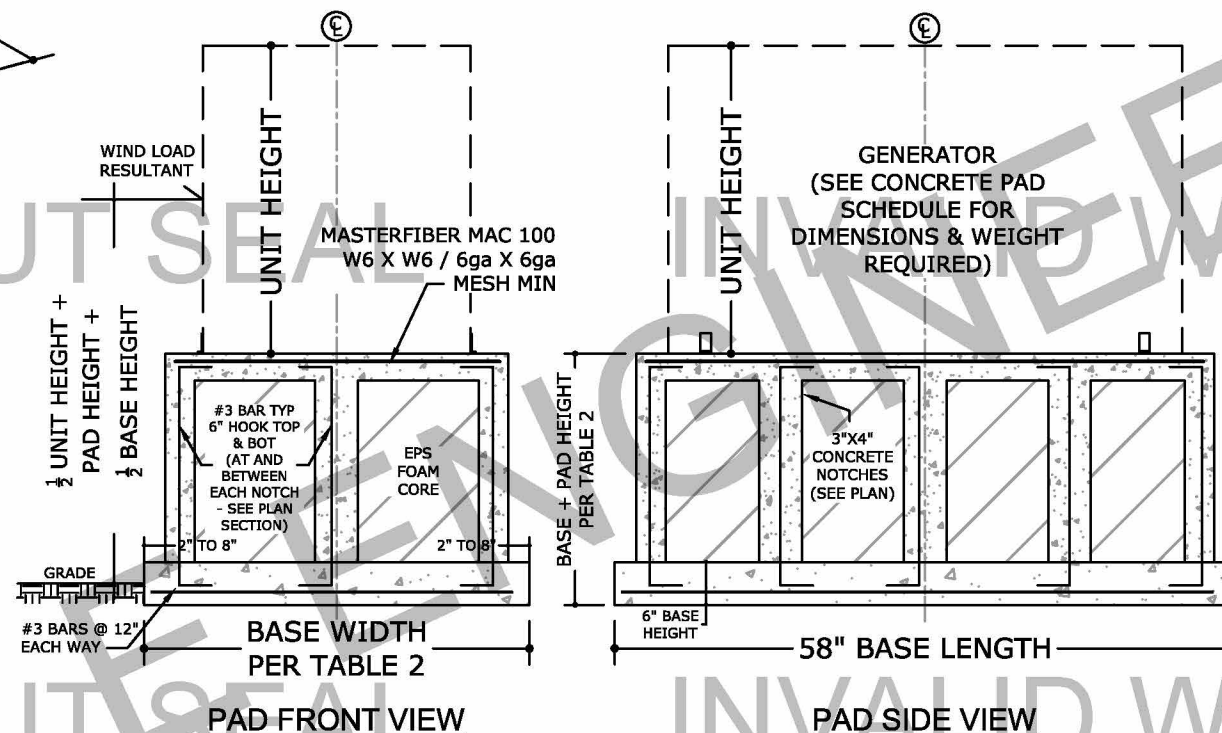
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ISOMETRIC VIEW



GENERATOR MOUNTING CONFIGURATION:

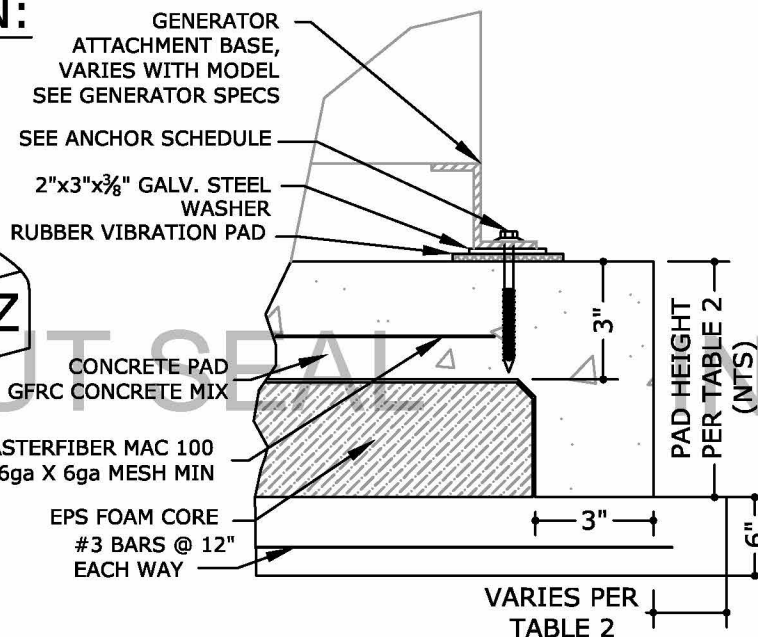
GENERATOR ATTACHMENT BASE
OR SIMPSON A24 ANGLE BRACE
W/ (4) #10 SS 316
SELF-DRILLING SCREWS
TO GENERATOR
(SEE GENERATOR SPECS)

3/8" THICK GALVANIZED
WASHER & RUBBER
VIBRATION PAD

CONCRETE PAD
GFRC CONCRETE MIX

NOTES:

1. Y DISTANCE DEPEND ON GENERATOR BASE LENGTH, NO LESS THAN 2".
2. X DISTANCE 3" FROM UNIT EDGE TO CLIP.
3. Z DISTANCE DEPEND ON GENERATOR BASE WIDTH, NO LESS THAN ANCHOR REQUIREMENTS



ANCHOR TO PAD SCHEDULE:

SUBSTRATE	DESCRIPTION
GLASS FIBER REINFORCED CONCRETE: (6000 PSI MIN.)	(2)-3/8"Ø TITEN HD OR EQUIVALENT, 2-3/4" FULL EMBED TO CONCRETE, 3" MIN. EDGE DISTANCE, 6" MIN. SPACING TO ANY ADJACENT ANCHOR.

NOTES:

1. ANCHOR QUANTITY PER LONG SIDE
2. EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
3. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.
4. ENSURE MINIMUM SPACING TO ANY ADJACENT ANCHORS.
5. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS TO INSTALL ANCHORS.

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