

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		
	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

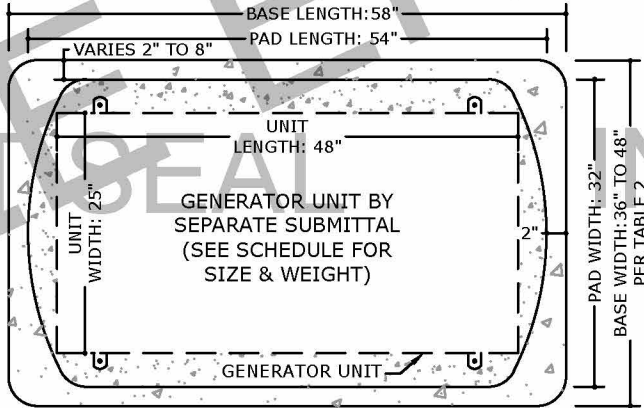
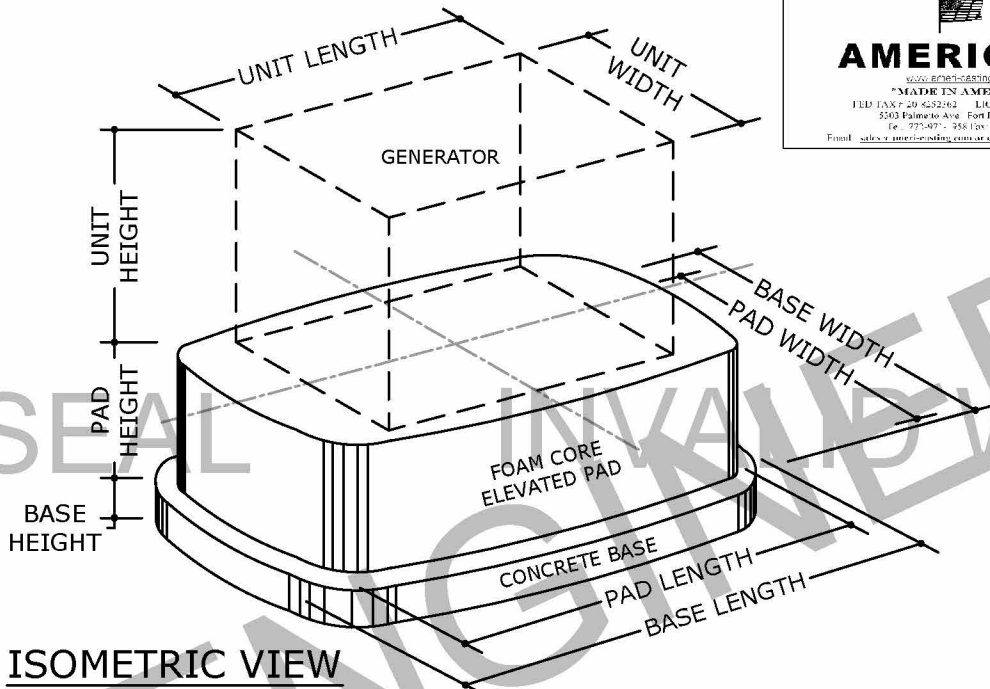
NOTE: TABLE ABOVE INCLUDES A QUICK REFERENCE OF COMMON FLORIDA CONDITIONS (AT ULTIMATE DESIGN WIND VELOCITIES) FOR SITE-SPECIFIC CONDITIONS, CONSULT LOCAL BUILDING MUNICIPALITY. MAXIMUM DESIGN WIND PRESSURES AT GRADE PER SPECIFIED EXPOSURE REMAIN CONSTANT FOR ANY MAX WIND VELOCITY. FOR SITE-SPECIFIC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

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

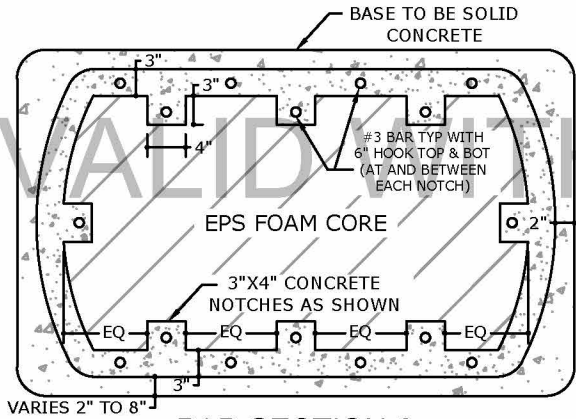
TABLE 2: ALLOWABLE LATERAL ASD PRESSURE FOR PAD / GENERATOR COMBINATION									
PAD & BASE			GENERATOR UNIT				DESIGN ALLOWANCES		
PAD + BASE HEIGHT, IN	BASE REQ'D WIDTH, IN	PAD + BASE WEIGHT, LB	L, IN	W, IN	H, IN	WT, LB	ALLOWABLE ASD PRESSURE	EQUIVALENT WIND	
								EXP C	EXP D
12 in	36 in	1677 lbs	25	48	29	350	59.9 PSF	200 MPH	186 MPH
			25	48	29	400	61.4 PSF	200 MPH	190 MPH
			25	48	29	450	62.8 PSF	200 MPH	190 MPH
			25	48	29	500	64.3 PSF	200 MPH	190 MPH
			25	48	29	550	65.8 PSF	200 MPH	195 MPH
18 in	36 in	1957 lbs	25	48	29	350	47.6 PSF	180 MPH	165 MPH
			25	48	29	400	48.7 PSF	186 MPH	165 MPH
			25	48	29	450	49.7 PSF	186 MPH	170 MPH
			25	48	29	500	50.7 PSF	190 MPH	170 MPH
			25	48	29	550	51.8 PSF	190 MPH	170 MPH
24 in	42 in	2418 lbs	25	48	29	350	49.3 PSF	186 MPH	170 MPH
			25	48	29	400	50.2 PSF	186 MPH	170 MPH
			25	48	29	450	51.1 PSF	190 MPH	170 MPH
			25	48	29	500	52.0 PSF	190 MPH	175 MPH
			25	48	29	550	52.8 PSF	190 MPH	175 MPH
30 in	48 in	2880 lbs	25	48	29	350	50.6 PSF	190 MPH	170 MPH
			25	48	29	400	51.4 PSF	190 MPH	170 MPH
			25	48	29	450	52.2 PSF	190 MPH	175 MPH
			25	48	29	500	52.9 PSF	190 MPH	175 MPH
			25	48	29	550	53.7 PSF	195 MPH	175 MPH
36 in	54 in	3341 lbs	25	48	29	350	54.5 PSF	195 MPH	175 MPH
			25	48	29	400	55.1 PSF	195 MPH	180 MPH
			25	48	29	450	56.0 PSF	195 MPH	180 MPH
			25	48	29	500	56.9 PSF	195 MPH	180 MPH
			25	48	29	550	57.8 PSF	195 MPH	180 MPH
42 in	54 in	3621 lbs	25	48	29	350	58.7 PSF	195 MPH	180 MPH
			25	48	29	400	59.6 PSF	195 MPH	180 MPH
			25	48	29	450	60.5 PSF	195 MPH	180 MPH
			25	48	29	500	61.4 PSF	195 MPH	180 MPH
			25	48	29	550	62.3 PSF	195 MPH	180 MPH
48 in	60 in	4083 lbs	25	48	29	350	63.2 PSF	195 MPH	180 MPH
			25	48	29	400	64.1 PSF	195 MPH	180 MPH
			25	48	29	450	65.0 PSF	195 MPH	180 MPH
			25	48	29	500	65.9 PSF	195 MPH	180 MPH
			25	48	29	550	66.8 PSF	195 MPH	180 MPH

TABLE 2 NOTES:
1- PAD + BASE WEIGHT CALCULATED BASED ON 150 PCF MIN CONCRETE & 1.25 PCF EPS FOAM CORE.
2- CONCRETE MIN COMPRESSIVE STRENGTH TO BE f'c=2,500 PSI AT 28 DAYS.
3- 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).
4- GENERATOR UNIT SIZE TO MATCH INFO SHOWN IN TABLE 2 (+/- 1 IN TOLERANCE).
5- 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).
6- GENERATOR'S MANUFACTURER SPECS TO BE PROVIDED WITH THIS MASTER PLAN SHEET FOR SUBMISSION & CERTIFICATION.
7- FOR UNITS OR CONDITIONS REQUIRING GREATER ALLOWABLE PRESSURE, ADDITIONAL ENGINEERING MAY BE REQUIRED.

AMERICAST GENERATOR
HEAVY DUTY, 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.

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DESIGN NOTES

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- 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 PCI. 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 & 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.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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03/18/2021

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MASTER PLAN SHEET
HEAVY DUTY ELEVATED CONCRETE PADS
FBC 6TH & 7TH EDITION (2017 & 2020)

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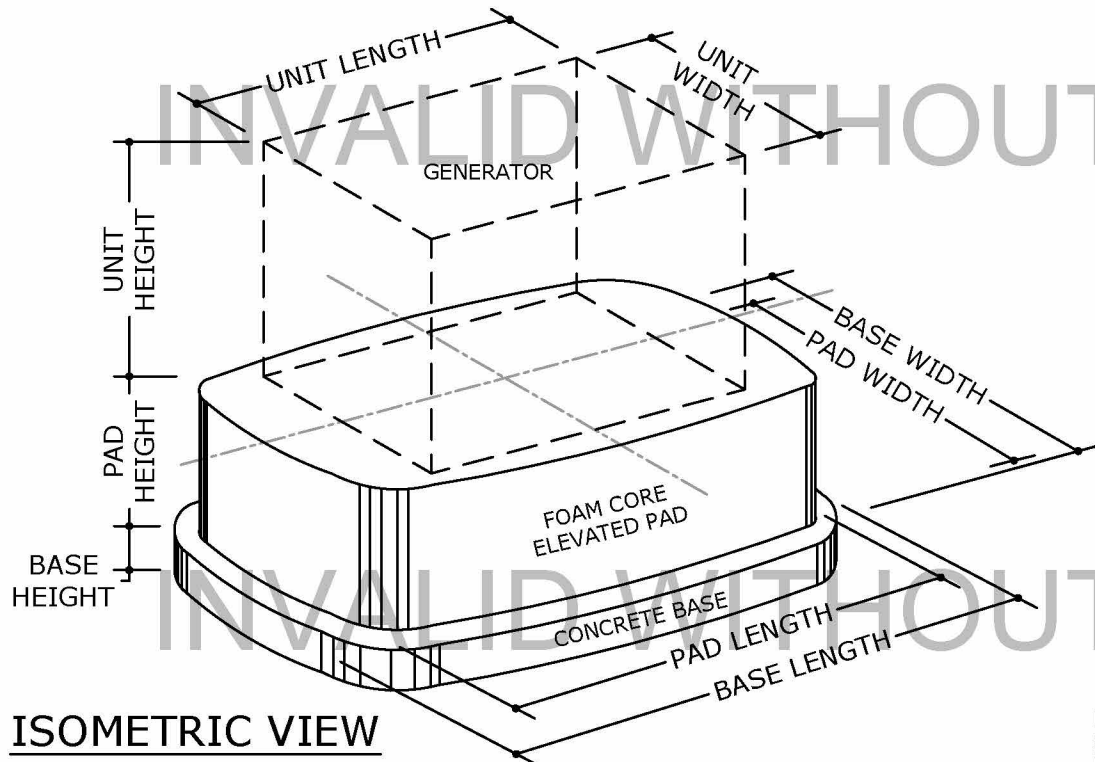
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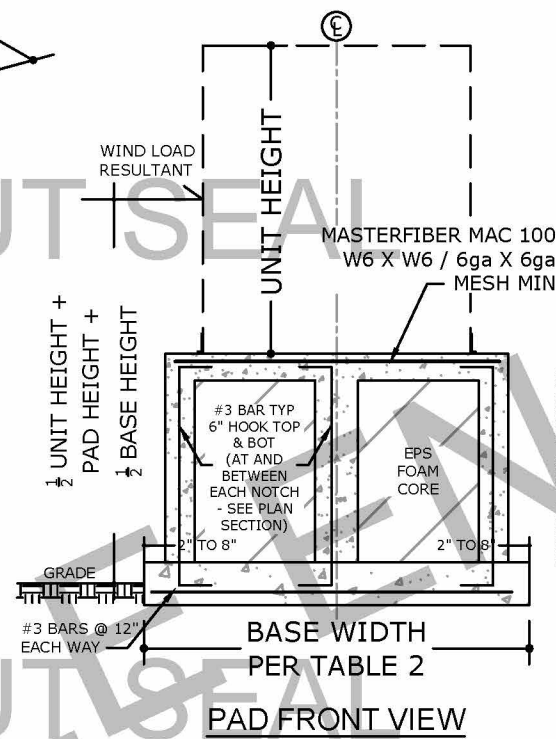
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AMERICAST GENERATOR
HEAVY DUTY, FOAM CORE, 12" TO 48"
ELEVATED CONCRETE PAD
(ON-GRADE APPLICATIONS ONLY)

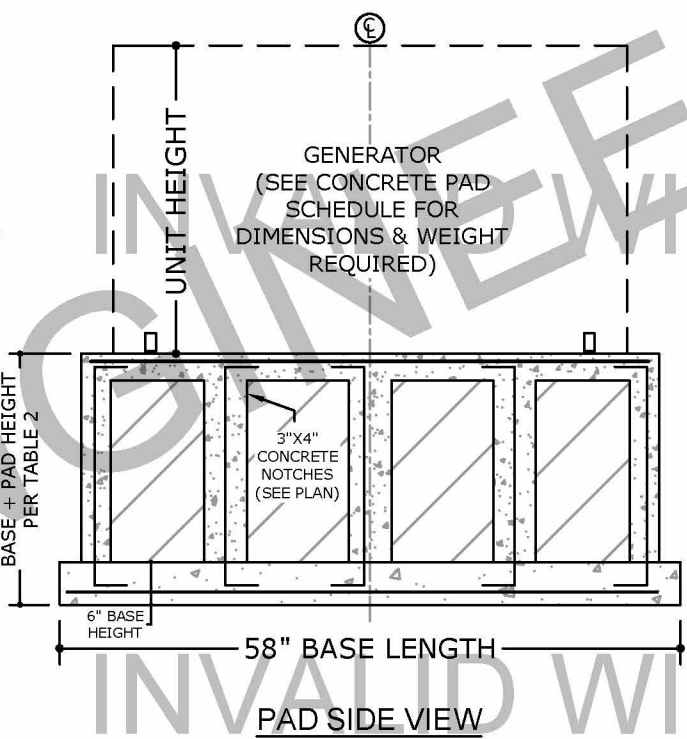
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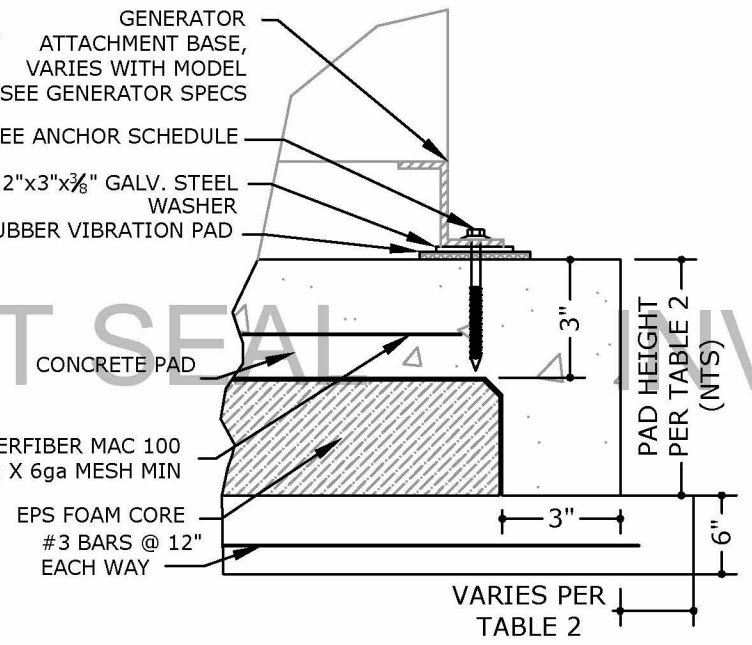
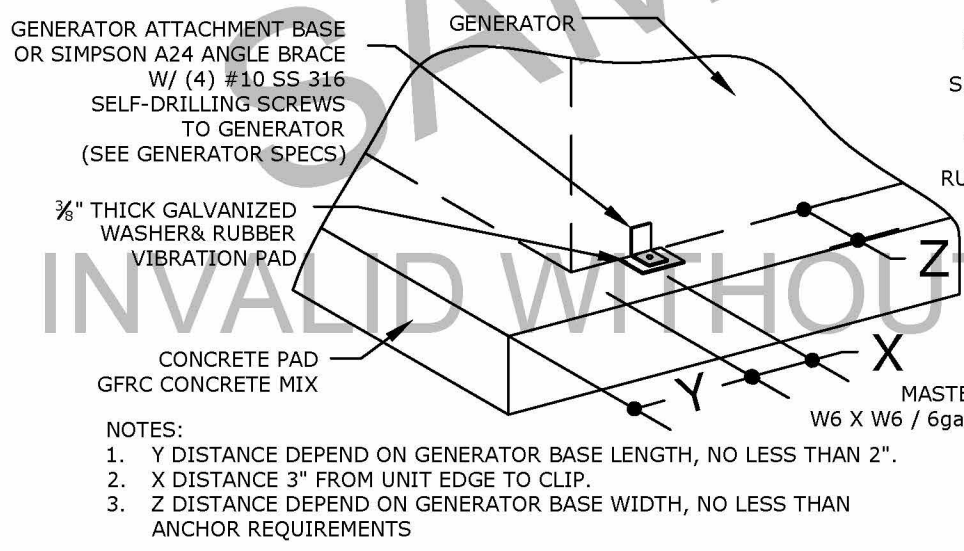


PAD FRONT VIEW



PAD SIDE VIEW

GENERATOR MOUNTING CONFIGURATION:



ANCHOR TO PAD SCHEDULE:

SUBSTRATE	DESCRIPTION
REINFORCED CONCRETE: (6000 PSI MIN.)	(3)-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:
- ANCHOR QUANTITY PER LONG SIDE EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
 - ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.
 - ENSURE MINIMUM SPACING TO ANY ADJACENT ANCHORS.
 - FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS TO INSTALL ANCHORS.

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