## HURRICANE CONCRETE PAD FOR GENERAC GENERATORS (GENERAC UNITS)

## LIMITS & REQUIREMENTS OF USE

1) THE PAD AND THE SUPPORTED EQUIPMENT MUST BE LOCATED AT GROUND LEVEL. THIS TABLE DOES NOT APPLY TO ROOFTOP EQUIPMENT, EQUIPMENT LOCATED ON BALCONIES OR ANY OTHER EQUIPMENT TO BE ELEVATED ABOVE GROUND LEVEL

4.00 in. PAD THICKNESS

- 2) THE AREA UNDER CONCERETE SLAB ON GROUND SHALL HAVE ALL MATERIALS REMOVED PRIOR TO INSTALLATION ON COMPACTED SOIL AS VERIFIED BY OTHERS MINIMUM SOIL COEFFICIENT OF FRICTION = 0.25
- 3) MAXIMUM DIMENSIONS AND WEIGHT OF GENERATORS UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN. PAD WEIGHT TO BE VERIFIED BY OTHERS
- 5) ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) 4) ORIGINAL EQUIPMENT MANUFACTURER INSTALLATION INSTRUCTIONS SUPERSEDE HURRICANE PAD INSTALLATION INSTRUCTIONS IF MORE STRINGENT
- SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR
- 6) 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.
  7) THE ROLE OF THIS ENGINEER FOR THIS PROJECT IS THAT OF SPECIALTY ENGINEER AND NOT THE ENGINEER OF RECORD. CONSEQUENTLY, THE COORDINATED BY THE PERMITTING CONTRACTOR. ARCHITECT/ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE
- 8) THIS DOCUMENT IS GENERIC AND DOES NOT PERTAIN TO ANY SPECIFIC PROJECT SITE.
- 9) THIS ENGINEER SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT MUST REMAIN WITHIN THE LIMITATIONS SPECIFIED HEREIN
- 10) THIS ENGINEER SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO RE-EVALUATE THIS WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.

TYPICAL ANCHORAGE: (GTY=3)
1/4\* DIA - 5 in long BOLTS, 3\* MIN EDGE
DISTANCE: 1-30\* EMBED. INTO CONCRETE
(BASE PAM MIN. THICKNESS = 0 89\* AND MIN
BEARING STRENGTH = 6 KSI)

54.3 in. PAD LENGTH -

(HEALTH)

GENERATOR GENERAC

PAD WIDTH

- 11) ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION
- 12) EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED
- 13) PADS SHALL BE CONSTRUCTED WITH PRECAST CONCRETE, MINIMUM COMPRESSIVE STRENGTH, fc=7,000 PSI AT 28 DAYS
- 14) ALL OTHER UNITS NOT SHOWN SHALL BE DESIGNED ON A CASE BY CASE BASIS.
- 15) CONTRACTOR SHALL PROVIDE 5/8" DIA. (0.675" O.D.) GALV. TUBE ASTM A53B SCH 40 MIN. OR 1/2" DIA. SOLID COPPER BAR PAD FOR SLIDING RESISTANCE PURPOSE, 12 DIAMETERS EDGE DISTANCE FROM ANY CONCRETE FACE (NOT SHOWN). SPIKE 4' MIN. EMBED. (SEE MIN. EMBED. AS PER CURRENT ELECTRICAL CODE, BY OTHERS) INTO GROUND THROUGH CONCRETE
- 16) PADS / UNITS INSTALLED DIRECTLY ON ANY COASTLINE REQUIRE A HEAVIER AND LARGER PAD TO ACCOUNT FOR EXPOSURE D; Table 28.3-1; Kz = 1.03

## ENGINEERING DATA:

- 1) ANALYSES PER 5th EDITION (2014) FLORIDA BUILDING CODE SECTION 1620 HIGH VELOCITY HURRICANE ZONES
- 2) WIND LOADS & LOAD COMBINATIONS PER ASCE 7-10 SECTION 2.4.1 (LOAD COMBINATIONS), SECTION 29.5 & FIGURE 29.5.1 FOR: WIND LOADS ON OTHER STRUCTURES
- 3) RISK CATEGORY = II TABLE 1604.5 RISK CATEGORY OF BUILDINGS AND OTHER STRUCTURES, SECTION 301.15 OF THE MECHANICAL CODE, WIND RESISTANCE, AND 553.844 OF THE FLORIDA STATUTES WIND STORM LOSS MITIGATION
- 4) WIND LOAD  $qz = 0.00256 * Kz * Kzt * Kd * V^2 =$ Exposure C; Table 28.3-1  $F = qz^*G^*Cf^*Af (Eq. 29.5-2) =$ Figure 26.8-1 Wind Speed V = Kzt = Kz= 63.45 70.65 0.85 180 1.00 \*Af (lbs) MPH (RISK CATEGORY II) DiversiTech Corporation

Figure 29.5-1 Table 26.6-1

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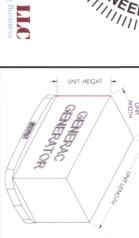
0.90

Duluth, GA 30097

3650 Sugarloaf Parkway #100







		UNIT / E	EQUIPMENT		FC	FG3154-4G PAD USED FOR ALL	AD USED F	OR ALL		180	180 MPH	0.6(UNIT+				
	MAXIM	UM DIMENSIONS	SNOIS	MINIMUM			PAD	PAD	PAD	WIND	0.6(WIND	PAD)	RESISTING		DESIGN	
PAGE 1 of 1		INCHES		WEIGHT	MODEL	WEIGHT	WIDTH	LENGTH	THICK	LOAD	MOMENT)	WEIGHT	MOMENT	_	CHECK	
	WIDTH	LENGTH	HEIGHT	LBS.	NUMBER	LBS.	Z.	Z	z	LBS.	FT-LBS.	LBS.	FT-LBS.			
GENERAC 09kW	25	48	29	340	FG5431-4G	275	31.3	54.3	4	683	632	369.0	481	OK FOR   157	157	MPH
GENERAC 11kW	25	48	29	348	FG5431-4G	275	31.3	54.3	4	683	632	373.8	487	OK FOR	158	MPH
GENERAC 16kW	25	48	29	406	FG5431-4G	275	31.3	54.3	4	683	632	408.6	533	OK FOR	165	MPH
GENERAC 20kW	25	48	29	448	FG5431-4G	275	31.3	54.3	4	683	632	433.8	566	OK FOR	170	MPH
GENERAC 22kW	25	48	29	466	FG5431-4G	275	31.3	54.3	4	683	632	444.6	580	OK FOR   172	172	2 MPH