

DIVERSITECH CORP
PRECAST, FOAM-CORE CONCRETE PADS FOR MECHANICAL UNIT INSTALLATION
IN CONDITIONS UP TO 150 MPH / EXPOSURE C

GENERAL PERFORMANCE EVALUATION REPORT (FOR AT-GRADE APPLICATIONS ONLY)

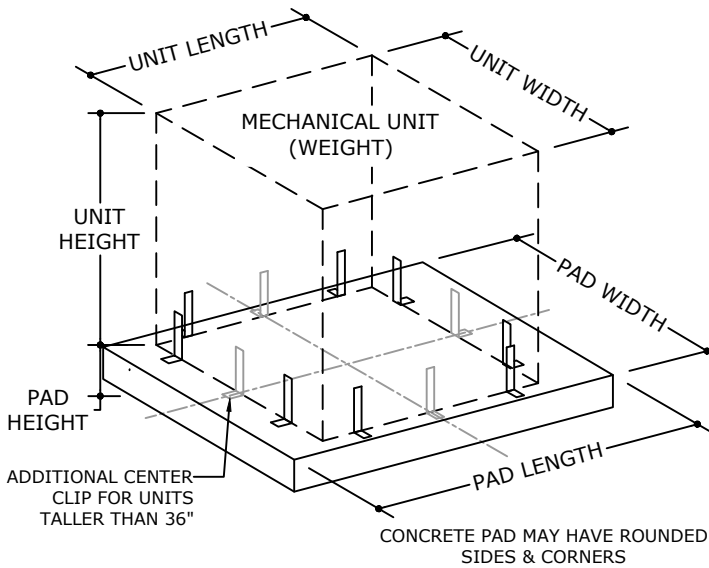
NON-HVHZ - FLORIDA STATE APPROVAL - FL# 41704.1

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.



CERTIFIED FOR USE
WITH PADS BY
DIVERSITECH ONLY

MECHANICAL UNIT MANUFACTURER'S SPECIFICATIONS
TO BE SUBMITTED WITH THIS PLAN
(SEE SCHEDULE FOR MINIMUM WEIGHT REQUIRED)



PAD & UNIT
ISOMETRIC VIEW

TOTAL WIDTH & LENGTH MAY TAPER
UP TO 2" FROM BASE TO TOP OF
SLAB ON EACH SIDE (ANCHOR
EMBEDMENT & EDGE DISTANCE TO
BE MAINTAINED PER SCHEDULE)

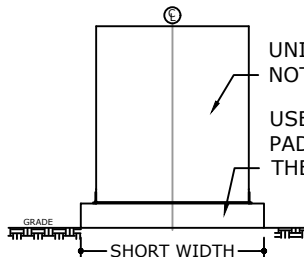
VISIT [ECALC.IO/DIVERSITECH](https://ecalculator.com/diversitech)

FOR SITE SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
OR SCAN THIS QR CODE
VISIT [ENGINEERINGEXPRESS.COM/DIVERSITECH](https://engineeringexpress.com/diversitech)
FOR ADDITIONAL PLANS, REPORTS & RESOURCES



ADDITIONAL SUPPORT DIRECTIVES:

ADDITIONAL PAD WEIGHT DIRECTIVE



ONLY DIVERSITECH H-, HT-, OR HMD-SERIES PADS ARE CERTIFIED AS APPLICABLE ALTERNATIVE PADS

ADDITIONAL PAD WEIGHT DIRECTIVE:

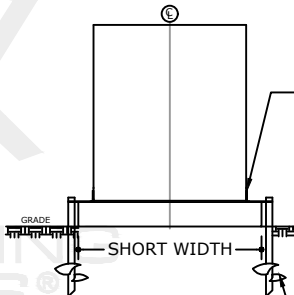
THE REQUIRED MINIMUM WEIGHTS LISTED IN THE PAD SELECTION TABLE REFER TO THE WEIGHT OF THE MECHANICAL UNIT ONLY (THE WEIGHT OF THE PRECAST CONCRETE PAD LISTED HAS ALREADY BEEN CONSIDERED IN THE CALCULATION). FOR UNITS NOT MEETING THE MINIMUM WEIGHT REQUIREMENTS, A HEAVIER, EQUIVALENT PAD (PRODUCED BY DIVERSITECH) MAY BE USED TO ADD WEIGHT TO THE SYSTEM.

EXAMPLE SITUATION:
FOR A UNIT 25" X 31" X 30" X 150 LBS, A H3636-4 PAD IS LARGE ENOUGH FOR THE INSTALLATION. HOWEVER, THIS CONDITION REQUIRES 220 LBS OF UNIT WEIGHT (THE UNIT IS 70 LBS TOO LIGHT).

THE H3636-4 PAD IS 100 LBS, BUT AN EQUIVALENTLY SIZED HT3636-4 PAD IS 180 LBS (80 LBS HEAVIER). DUE TO THIS 80 ADDITIONAL LBS OF PAD WEIGHT, THE HEAVIER PAD IS SUFFICIENT FOR USE

150 LBS + 80 LBS = 230 LBS > 220 LBS (MINIMUM FROM TABLE) - OK!

GROUND ANCHORAGE DIRECTIVE



GROUND ANCHOR CONNECTION PER
MANUFACTURER'S
SPECIFICATIONS

GROUND
ANCHORAGE
SYSTEM (TOTAL
STRENGTH AS
DETAILED)
CENTERED ALONG
PAD EDGE.

NOTE REGARDING USE OF
THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN FLORIDA ONLY. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT [ENGINEERINGEXPRESS.COM/QUOTE](https://engineeringexpress.com/quote) FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA

ENGINEER SIGNATURE & SEAL NOTICE:

*PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.
*FOR FLORIDA STATEWIDE PRODUCT APPROVALS (FSAs) REGISTERED & APPROVED WITH THE STATE OF FLORIDA: ORIGINAL, SEALED COPIES OF APPROVED FLORIDA PRODUCT APPROVALS ARE NOT REQUIRED FOR PERMIT. SEE [ECALC.IO/SEAL](https://ecalculator.com/seal) TO LEARN MORE.

TABLE 2: DIVERSITECH PAD SIZES
FOR HIGH WIND CONDITIONS
(UP TO 150 MPH / EXPOSURE C)
REFER SHEET 2 FOR PAD SELECTION TABLE

DIVERSITECH PRECAST CONCRETE PADS				
MODEL ID, SIZE & WEIGHT				
PAD ID	LENGTH	WIDTH	HEIGHT	WEIGHT
H1840-4	18 IN	40 IN	4 IN	92 LB
H2424-4	24 IN	24 IN	4 IN	50 LB
H2436-4	24 IN	36 IN	4 IN	70 LB
H3030-4	30 IN	30 IN	4 IN	70 LB
H3060-4	30 IN	60 IN	4 IN	135 LB
H3232-4	32 IN	32 IN	4 IN	87 LB
H3345-4	33 IN	45 IN	4 IN	125 LB
H3434-4	34 IN	34 IN	4 IN	94 LB
H3636-4	36 IN	36 IN	4 IN	100 LB
H3642-4	36 IN	42 IN	4 IN	117 LB
H3648-4	36 IN	48 IN	4 IN	133 LB
H3652-4	36 IN	52 IN	4 IN	140 LB
H3842-4	38 IN	42 IN	4 IN	158 LB
H3852-4	38 IN	52 IN	4 IN	145 LB
H3865-4	38 IN	65 IN	4 IN	170 LB
H4040-4	40 IN	40 IN	4 IN	140 LB
H4242-4	42 IN	42 IN	4 IN	145 LB
H4558-4	45 IN	58 IN	4 IN	180 LB
H5557-4	55 IN	57 IN	4 IN	240 LB

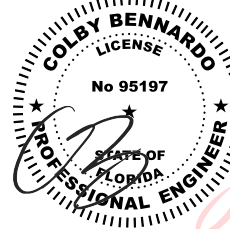
OPTIONAL GROUND ANCHORS:

FOR UNITS NOT MEETING THE WEIGHT REQUIREMENTS DETAILED IN TABLE 2, ADDITIONAL GROUND ANCHORAGE MAY BE INCLUDED IN THE INSTALLATION IN PLACE OF ADDITIONAL WEIGHT. ADDING GROUND ANCHORS ON EACH SIDE OF THE SYSTEM AS SHOWN SHALL BE SUFFICIENT FOR INSTALLATION OF ANY PAD / UNIT NOT MARKED "N/A" ON TABLE 1 (PADS MARKED "N/A" ARE NOT LARGE / WIDE ENOUGH FOR THE UNIT).

GROUND ANCHORAGE SHALL CONFORM TO AND BE INSTALLED PER THE FOLLOWING REQUIREMENTS:

- GROUND ANCHOR PULL TEST STRENGTH (ON EACH LONG SIDE) MUST BE 1/2 OF THE DIFFERENCE BETWEEN THE REQUIRED & ACTUAL UNIT WEIGHTS
EX: REQUIRED UNIT WEIGHT = 1000 LB
ACTUAL UNIT WEIGHT = 400 LB
ANCHOR STRENGTH REQUIRED = (1000 LB - 400 LB)/2 = 300 LB (ANCHOR STRENGTH REQUIRED ON EACH LONG SIDE)
- ANCHOR STRENGTH SHALL BE AS PROVIDED BY PULL TEST STRENGTH RATING (BY OTHERS) FOR THE GROUND CONDITION PRESENT.
- MULTIPLE ANCHORS MAY BE UTILIZED ALONG EACH SIDE OF THE SYSTEM SO THAT THE CUMULATIVE PULL TEST STRENGTHS SUM TO THE CALCULATED REQUIRED STRENGTH.
- GROUND ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS. ANCHORS MAY BE FASTENED TO THE PRECAST SLAB OR MECHANICAL UNIT AS REQUIRED.
- FOR ANCHORAGE TO EXISTING CONCRETE, ADDITIONAL SITE-SPECIFIC ENGINEERING IS REQUIRED.

COLBY BENNARDO, PE
PE# 95197 CA# 9885



Digitally signed by
Colby Bennardo
Date: 2026.08.18
17:03:53 -04'00'

DESIGN NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE NINTH EDITION (2026) AND CURRENT VERSION OF ASCE 7.
- POSITIVE, NEGATIVE, AND LATERAL DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- WIND SPEEDS LISTED ARE ULTIMATE (VULT) SPEEDS AS DETAILED IN ASCE 7. LOADING & REACTION VALUES LISTED ARE CALCULATED USING ALLOWABLE STRESS DESIGN (ASD)
- MAXIMUM DIMENSIONS AND WEIGHT OF CONCRETE PAD & GENERATOR UNIT SHALL CONFORM TO SPECIFICATIONS STATED ± 1/2" TOLERANCE.
- 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 TO BE ADDITIONALLY RESISTED BY MINIMAL EMBEDMENT OF PAD IN GROUND ALONG WITH RESISTANCE FROM CONNECTED CABLING. NOMINAL SLIDING IS NOT ASSUMED A FAILURE CASE IN THIS DESIGN
- CONCRETE MIXTURES SHALL BE DESIGNED TO REACH A COMPRESSIVE STRENGTH OF MINIMUM 3000 PSI IN 28 DAYS.
- ALL MIXING, TRANSPORTING, PLACING, & CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318.
- CONCRETE SHALL BE TYPE 1 PORTLAND CEMENT MEETING THE REQUIREMENTS OF ASTM C150, AGGREGATES TO MEET ASTM C33. POTABLE WATER SHALL BE USED.
- CONCRETE MIX TO CONTAIN 0.1% FIBERMESH REINF. PER CUBIC YARD.
- ALL REINFORCEMENT BARS SHALL BE OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A615, GRADE 60 (U.O.N.) ALL WELDED WIRE FABRIC IS TO CONFORM TO ASTM A185 MINIMUM YIELD STRENGTH OF 85 KSI.
- 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.
- FOAM CORE 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.
- FOR PERMANENT OUTDOOR INSTALLATIONS, ALL EXPOSED ANCHORS, FASTENERS, CONNECTORS, AND METAL PLATES SHALL BE CORROSION RESISTANT. CORROSION RESISTANCE MAY BE PROVIDED BY INHERENT MATERIAL COMPOSITION OR, WHERE PERMITTED BY CODE, BY AN APPROVED PROTECTIVE COATING OR GALVANIZATION. WHERE APPLICABLE NEAR A SALTWATER COASTLINE, SUCH COMPONENTS SHALL COMPLY WITH FBC SECTION 1711, INCLUDING APPLICABLE REQUIREMENTS FOR EXPOSED, PROTECTED, OR ENCLOSED CONDITIONS. MATERIALS, COATINGS, AND FINISHES SHALL BE COMPATIBLE WITH CONNECTED MATERIALS, AND PROTECTIVE COATINGS SHALL BE CONTINUOUS OVER EXPOSED SURFACES. FASTENERS USED WITH ALUMINUM MEMBERS SHALL ALSO COMPLY WITH SECTION J.3.7.2 OF THE ALUMINUM DESIGN MANUAL, "SPECIFICATION FOR ALUMINUM STRUCTURES." SUBSTITUTION OF COMPONENTS FROM ALTERNATE MANUFACTURERS, OR WITH DIFFERENT MATERIALS, COATINGS, OR FINISHES, SHALL NOT BE ASSUMED EQUIVALENT AND MAY REQUIRE ADDITIONAL ENGINEERING REVIEW OR SITE-SPECIFIC ANALYSIS.

GENERAL NOTES

- 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.
- THE ROLE OF THIS ENGINEER FOR THIS PROJECT IS THAT OF SPECIALTY ENGINEER AND NOT THE ENGINEER OF RECORD. CONSEQUENTLY, THE ARCHITECT/ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
- THIS DOCUMENT IS GENERIC AND DOES NOT PERTAIN TO ANY SPECIFIC PROJECT SITE. INFORMATION CONTAINED HEREIN IS BASED ON CONTRACTOR-SUPPLIED DATA AND MEASUREMENTS. ENGINEERING EXPRESS 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.
- WORK SHALL BE FIELD VERIFIED BY OTHERS PRIOR TO CONSTRUCTION. ENGINEERING EXPRESS SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO REEVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

FL 41704.1

ENGINEERING
EXPRESS

POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
[ENGINEERINGEXPRESS.COM](https://engineeringexpress.com)

DIVERSITECH CORP.

3039 PREMIERE PARKWAY, SUITE 600

DULUTH, GA 30097

(678) 542 - 3600

FOAM CORE PRECAST CONCRETE PAD - AT GRADE
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#41704.1)

DATE	DRWN	CHKD	DATE	DATE	DATE	DATE	DATE	DATE	DATE
10/4/22	CCB	RWN	8/21/23	MLD	CCB	CCB	CCB	EPR	
INIT ISSUE (22-55488)									
FBC 2023 (23-61198)									
R2- CONCRETE & REINFORCEMENT									
2026 FBC UPDATE									

COPYRIGHT ENGINEERING EXPRESS®

26-102716

SCALE: NTS UNLESS NOTED

1 OF 2

DIVERSITECH CORP

PRECAST, FOAM-CORE CONCRETE PADS FOR MECHANICAL UNIT INSTALLATION
IN CONDITIONS UP TO 150 MPH / EXPOSURE C

GENERAL PERFORMANCE EVALUATION REPORT (FOR AT-GRADE APPLICATIONS ONLY) - NON-HVHZ - FL# 41704.1

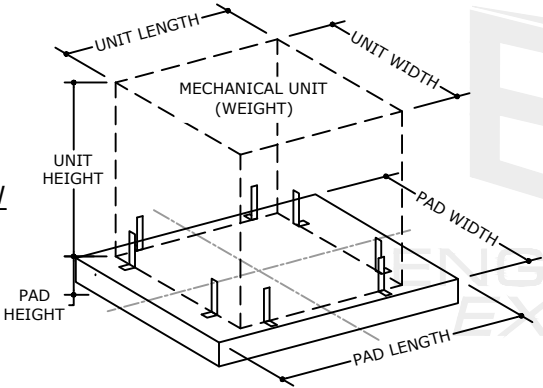
TABLE 1: DIVERSITECH PAD SELECTION TABLE - BY MINIMUM ALLOWABLE MECHANICAL UNIT WEIGHT - FOR WIND CONDITIONS: 150 MPH V_{ULT}/ EXPOSURE C

UNIT MAX DIMENSIONS			PAD MODEL NUMBER / MINIMUM ALLOWABLE UNIT WEIGHT																		LOADING APPLIED			
SHORT LENGTH	LONG WIDTH	UNIT HEIGHT	H1840-4	H2424-4	H2436-4	H3030-4	H3060-4	H3232-4	H3345-4	H3434-4	H3636-4	H3642-4	H3648-4	H3652-4	H3842-4	H3852-4	H3865-4	H4040-4	H4242-4	H4558-4	H5557-4	LATERAL FORCE	OVERTURNING MOMENT	
13 IN	35 IN	20 IN	250 LB	N/A	N/A	N/A	70 LB	N/A	65 LB	N/A	N/A	55 LB	40 LB	30 LB	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	155 LB	155 LB-FT	
		24 IN	385 LB	N/A	N/A	N/A	155 LB	N/A	135 LB	N/A	N/A	125 LB	105 LB	100 LB	70 LB	85 LB	60 LB	75 LB	60 LB	NO MIN	NO MIN	185 LB	215 LB-FT	
		30 IN	635 LB	N/A	N/A	N/A	300 LB	N/A	270 LB	N/A	N/A	245 LB	230 LB	225 LB	185 LB	200 LB	175 LB	185 LB	165 LB	110 LB	NO MIN	235 LB	330 LB-FT	
		36 IN	930 LB	N/A	N/A	N/A	480 LB	N/A	435 LB	N/A	N/A	395 LB	380 LB	370 LB	325 LB	340 LB	315 LB	320 LB	295 LB	230 LB	95 LB	280 LB	460 LB-FT	
19 IN	24 IN	20 IN	N/A	N/A	105 LB	70 LB	NO MIN	45 LB	NO MIN	30 LB	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	110 LB	110 LB-FT	
		24 IN	N/A	N/A	175 LB	130 LB	65 LB	100 LB	55 LB	80 LB	65 LB	50 LB	35 LB	25 LB	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	130 LB	150 LB-FT	
		30 IN	N/A	N/A	305 LB	230 LB	165 LB	195 LB	150 LB	170 LB	150 LB	135 LB	115 LB	110 LB	80 LB	90 LB	65 LB	85 LB	70 LB	NO MIN	NO MIN	160 LB	225 LB-FT	
		36 IN	N/A	N/A	455 LB	350 LB	285 LB	310 LB	260 LB	280 LB	250 LB	235 LB	220 LB	210 LB	175 LB	190 LB	165 LB	175 LB	155 LB	100 LB	NO MIN	190 LB	320 LB-FT	
	31 IN	20 IN	N/A	N/A	160 LB	N/A	50 LB	N/A	40 LB	N/A	55 LB	35 LB	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	140 LB	140 LB-FT
		24 IN	N/A	N/A	250 LB	N/A	120 LB	N/A	105 LB	N/A	115 LB	95 LB	80 LB	75 LB	45 LB	55 LB	30 LB	50 LB	40 LB	NO MIN	NO MIN	165 LB	190 LB-FT	
		30 IN	N/A	N/A	410 LB	N/A	250 LB	N/A	225 LB	N/A	220 LB	205 LB	190 LB	180 LB	150 LB	160 LB	135 LB	150 LB	130 LB	80 LB	NO MIN	205 LB	290 LB-FT	
		36 IN	N/A	N/A	610 LB	N/A	410 LB	N/A	370 LB	N/A	355 LB	335 LB	320 LB	315 LB	270 LB	285 LB	260 LB	270 LB	245 LB	185 LB	60 LB	245 LB	410 LB-FT	
25 IN	25 IN	20 IN	N/A	N/A	N/A	80 LB	NO MIN	50 LB	NO MIN	35 LB	25 LB	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	115 LB	115 LB-FT	
		24 IN	N/A	N/A	N/A	135 LB	70 LB	105 LB	65 LB	90 LB	70 LB	55 LB	40 LB	30 LB	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	135 LB	155 LB-FT	
		30 IN	N/A	N/A	N/A	240 LB	175 LB	205 LB	160 LB	180 LB	160 LB	145 LB	125 LB	120 LB	90 LB	100 LB	75 LB	95 LB	80 LB	30 LB	NO MIN	165 LB	235 LB-FT	
		36 IN	N/A	N/A	N/A	370 LB	305 LB	325 LB	275 LB	295 LB	265 LB	250 LB	235 LB	225 LB	190 LB	200 LB	175 LB	190 LB	170 LB	115 LB	NO MIN	200 LB	330 LB-FT	
	31 IN	20 IN	N/A	N/A	N/A	50 LB	N/A	40 LB	N/A	55 LB	35 LB	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	140 LB	140 LB-FT	
		24 IN	N/A	N/A	N/A	120 LB	N/A	105 LB	N/A	115 LB	95 LB	80 LB	75 LB	45 LB	55 LB	30 LB	50 LB	40 LB	NO MIN	NO MIN	165 LB	190 LB-FT		
		30 IN	N/A	N/A	N/A	250 LB	N/A	225 LB	N/A	220 LB	205 LB	190 LB	180 LB	150 LB	160 LB	135 LB	150 LB	130 LB	80 LB	NO MIN	205 LB	290 LB-FT		
		36 IN	N/A	N/A	N/A	410 LB	N/A	370 LB	N/A	355 LB	335 LB	320 LB	315 LB	270 LB	285 LB	260 LB	270 LB	245 LB	185 LB	60 LB	245 LB	410 LB-FT		
31 IN	31 IN	30 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	220 LB	205 LB	190 LB	180 LB	150 LB	160 LB	135 LB	150 LB	130 LB	80 LB	NO MIN	205 LB	290 LB-FT	
		36 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	355 LB	335 LB	320 LB	315 LB	270 LB	285 LB	260 LB	270 LB	245 LB	185 LB	60 LB	245 LB	410 LB-FT	
		20 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	55 LB	35 LB	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	NO MIN	140 LB	140 LB-FT	
		24 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	115 LB	95 LB	80 LB	75 LB	45 LB	55 LB	30 LB	50 LB	40 LB	NO MIN	NO MIN	165 LB	190 LB-FT	
	44 IN	42 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	510 LB	490 LB	475 LB	470 LB	420 LB	430 LB	405 LB	410 LB	375 LB	305 LB	160 LB	285 LB	550 LB-FT	
		20 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	85 LB	75 LB	N/A	60 LB	35 LB	N/A	N/A	NO MIN	NO MIN	195 LB	195 LB-FT
		24 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	170 LB	160 LB	N/A	140 LB	115 LB	N/A	N/A	60 LB	NO MIN	235 LB	275 LB-FT
		30 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	325 LB	315 LB	N/A	290 LB	265 LB	N/A	N/A	185 LB	60 LB	290 LB	415 LB-FT
35 IN	35 IN	36 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	510 LB	505 LB	N/A	465 LB	440 LB	N/A	N/A	335 LB	180 LB	350 LB	580 LB-FT	
		42 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	730 LB	720 LB	N/A	670 LB	645 LB	N/A	N/A	510 LB	325 LB	405 LB	775 LB-FT
		32 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	230 LB	205 LB	150 LB	30 LB	250 LB	370 LB-FT
		36 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	320 LB	295 LB	230 LB	95 LB	280 LB	460 LB-FT
	44 IN	42 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	335 LB	180 LB	350 LB	580 LB-FT
		42 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	510 LB	325 LB	405 LB	775 LB-FT
		48 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	710 LB	490 LB	465 LB	1000 LB-FT
		54 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	940 LB	675 LB	520 LB	1260 LB-FT
38 IN	40 IN	48 IN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	630 LB	425 LB	420 LB	910 LB-FT	

ASCE 7-22 ULT WIND VELOCITY TO ASD DESIGN PRESSURE AT GRADE CONVERSION CHART - HVHZ OR NON HVHZ									
EXAMPLE COUNTY	RISK I		EXPOSURE C		EXPOSURE D		RISK II	EXPOSURE C	
	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

ULT WIND VELOCITY TABLE INCLUDES A QUICK REFERENCE OF COMMON FLORIDA CONDITIONS (AT ULTIMATE DESIGN WIND VELOCITIES) & CORRESPONDING DESIGN PRESSURES. 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.

PAD & UNIT ISOMETRIC VIEW



INSTRUCTIONS FOR HOW TO USE MINIMUM UNIT WEIGHT TABLE:

STEP 1: CONFIRM YOUR SITE'S REQUIRED, MAXIMUM WIND CONDITIONS FOR USE WITH THIS PERFORMANCE EVALUATION (VALID FOR UP TO 150 MPH / EXPOSURE C)

STEP 2: DETERMINE MECHANICAL UNIT'S MAX SIZE. UNIT MAY NOT BE LARGER IN ANY DIMENSION THAN LISTED ON TABLE

STEP 3: FIND WEIGHT OF (EMPTY) MECHANICAL UNIT AS REPORTED BY THE MANUFACTURER

STEP 4: SELECT PAD BASED ON MINIMUM ALLOWABLE WEIGHTS SHOWN BELOW (MECHANICAL UNIT INSTALLED ON PAD MUST BE **HEAVIER** THAN WEIGHT VALUE LISTED)

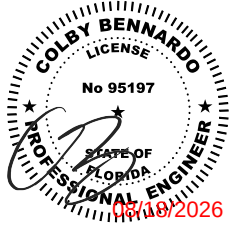
STEP 5: IF UNIT IS NOT HEAVY ENOUGH, EITHER SELECT A LARGER PAD OR REFER ADDITIONAL SUPPORT DIRECTIVE ON SHEET 1

CELLS MARKED WITH "N/A" REPRESENT UNITS WHICH ARE TOO BIG FOR INSTALLATION ON THE DESIGNATED PAD.

CELLS MARKED WITH "NO MIN" REPRESENT PADS WHICH ARE HEAVY ENOUGH TO SUPPORT A UNIT OF ANY WEIGHT (OF THE DESIGNATED SIZE)

FOR CONDITIONS WHERE UNIT WEIGHT IS NOT SUFFICIENT, ADDITIONAL SUPPORT MAY BE ADDED TO THE SYSTEM BY EITHER INCREASING THE SYSTEM'S PERMANENT WEIGHT OR INCLUDING ADDITIONAL GROUND ANCHORAGE. REFER DIRECTIVES ON SHEET 1 FOR ADDITIONAL INFORMATION.

COLBY BENNARD, PE
PE# 95197 CA# 9885



FL 41704.1



POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

DIVERSITECH CORP.

3039 PREMIERE PARKWAY, SUITE 600
DULUTH, GA 30097
(678) 542 - 3600

FOAM CORE PRECAST CONCRETE PAD - AT GRADE
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#41704.1)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (22-55488)	CCB	RWN	10/4/22
FBC 2023 (23-61198)	MLD	CCB	8/21/23
R2-CONCRETE & REINFORCEMENT	CCB	CCB	12/06/24
2026 FBC UPDATE	NRD	EPR	07/30/26

26-102716

SCALE: NTS UNLESS NOTED