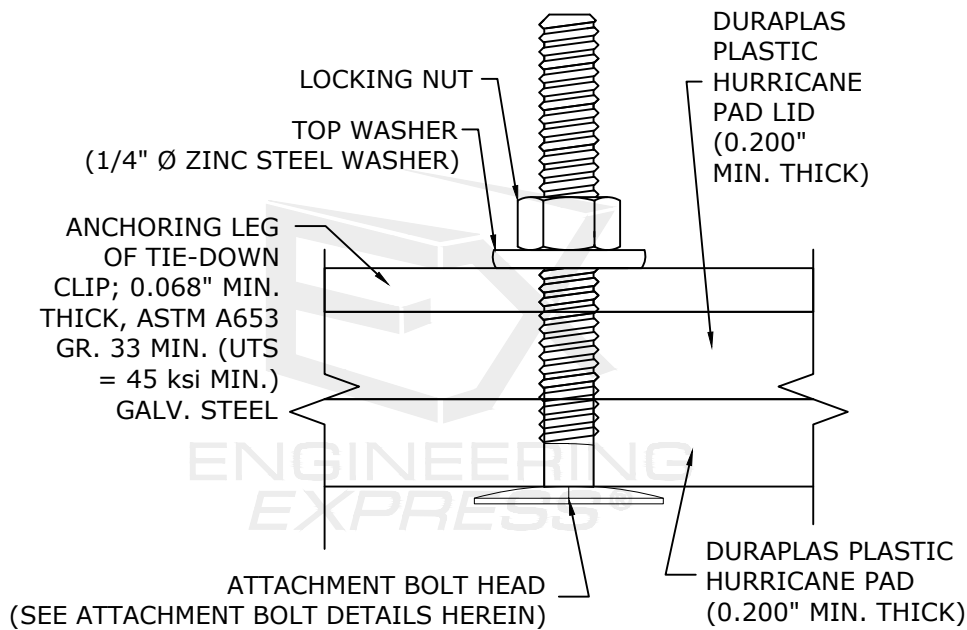
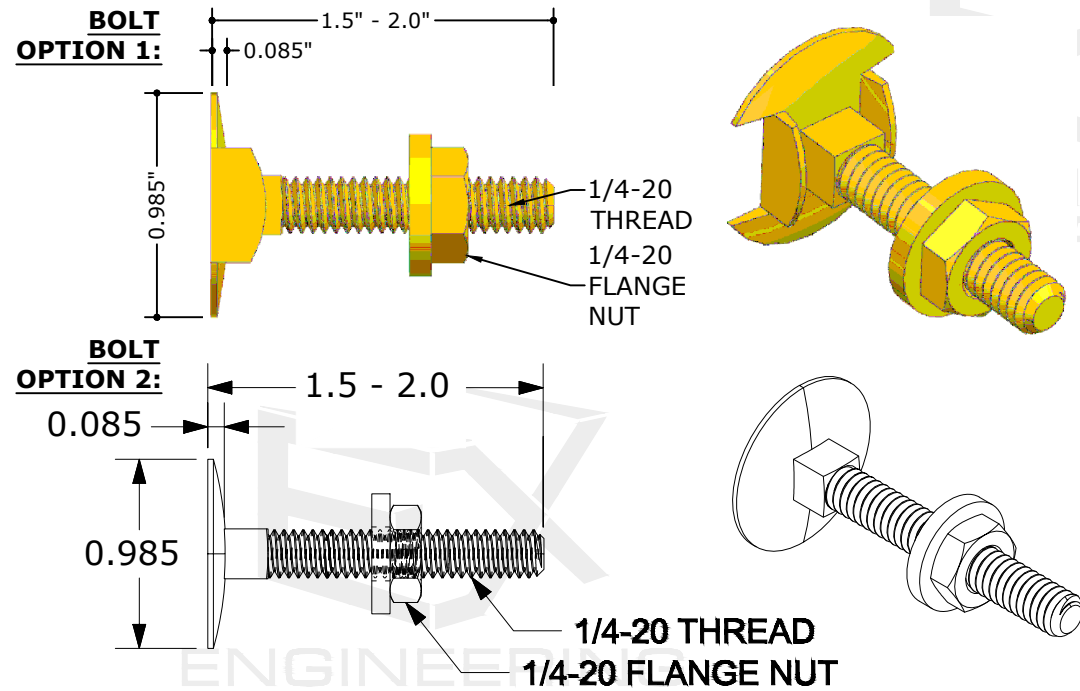


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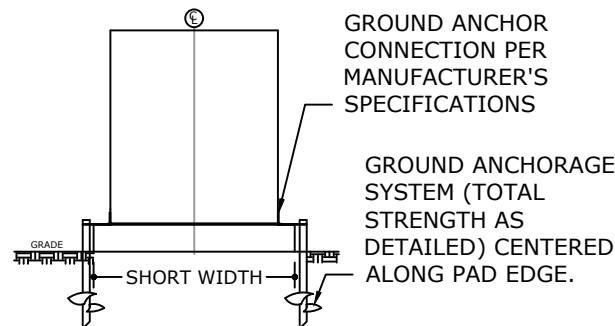


1
02 ATTACHMENT BOLT THRU-BOLTED CONNECTION
NOT TO SCALE SECTION VIEW



ATTACHMENT BOLT
NOT TO SCALE MULTIPLE VIEWS

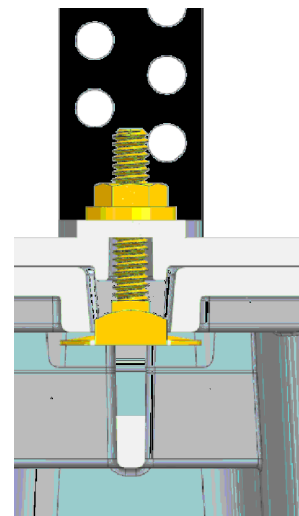
NOTE: DIMENSION VALUES SHOWN ARE IN INCHES. EITHER BOLT OPTION IS ACCEPTABLE FOR USE.



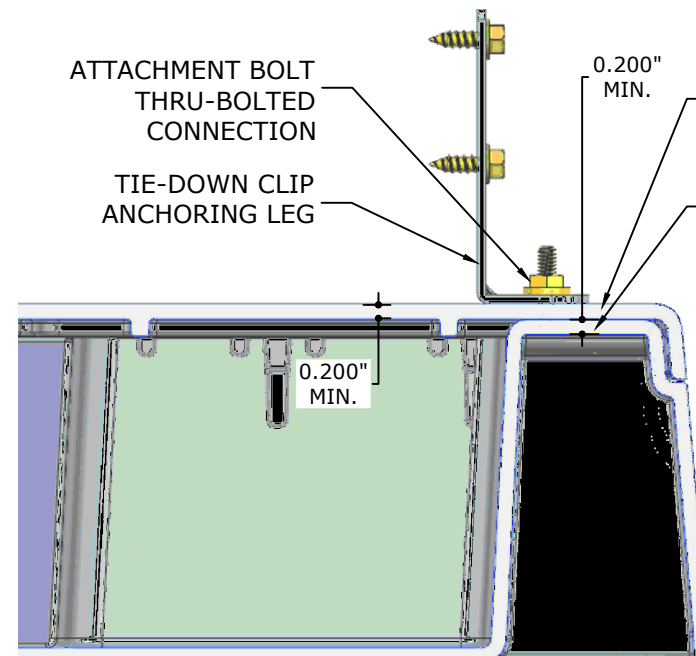
3
02 GROUND ANCHOR ADDTL. SUPPORT DIRECTIVE
NOT TO SCALE ELEVATION VIEW

GROUND ANCHOR ADDITIONAL SUPPORT DIRECTIVE (IF REQUIRED):
FOR UNITS NOT MEETING THE WEIGHT REQUIREMENTS DETAILED IN THE DURAPLAS PAD SELECTION TABLES (SEE NEXT PAGE), 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 PAD SELECTION TABLE (PADS MARKED "N/A" ARE NOT LARGE / WIDE ENOUGH FOR THE UNIT).

GROUND ANCHORAGE SHALL CONFORM TO AND BE INSTALLED PER THE FOLLOWING REQUIREMENTS:
1. GROUND ANCHOR PULL TEST STRENGTH (ON EACH LONG SIDE) MUST BE 1/2 OF THE DIFFERENCE BETWEEN THE REQUIRED & ACTUAL UNIT WEIGHTS



CLOSE-UP SECTION VIEW OF THRU-BOLT CONNECTION WITH BOLT OPTION 1



2
02 ILLUSTRATION OF ATTACHMENT BOLT CONNECTION
NOT TO SCALE SECTION VIEW

- FASTEN TIE-DOWN CLIP TO STEEL UNIT WALL PANEL OR BASE WITH (2) MIN. #10 Ø SMS AND 0.040" NOMINAL OD WASHERS, (1) WASHER PER SCREW, TYP.
- UTILIZE TIE-DOWN CLIP HOLES/SLOTS THAT HAVE FLUSH, SOLID CONTACT WITH THE UNIT, (1) SCREW PER HOLE/SLOT, TYP.
- CARE MUST BE TAKEN TO AVOID SCREW CONTACT WITH INTERNAL PIPING AND COMPONENTS. EXERCISE CAUTION WITH SCREW INSTALLATION.
- ENSURE ALL SCREWS FULLY ENGAGE WITH THE UNIT. ENSURE CLIP SITS FLUSH ON THE PAD/LID AS IS APPLICABLE AND FLUSH AGAINST THE UNIT, TYP.

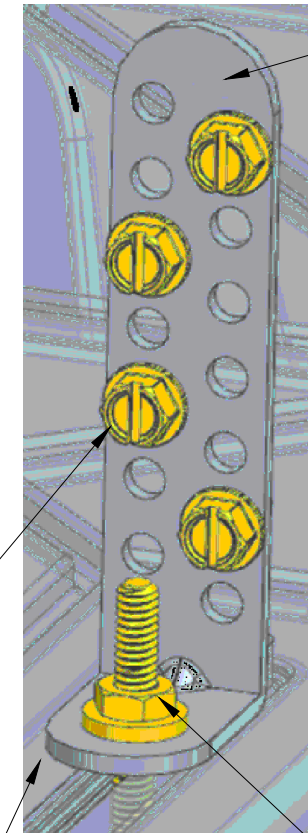
DURAPLAS PLASTIC HURRICANE PAD/LID

ATTACHMENT BOLT THRU-BOLT TO PAD/LID

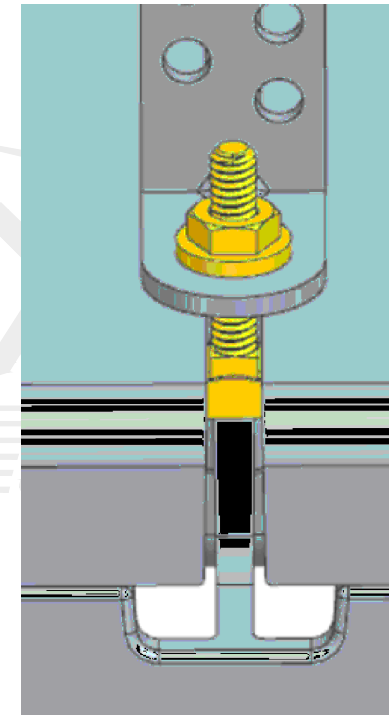
4
02 TIE-DOWN CLIP ATTACHMENTS, TYP.
NOT TO SCALE ISOMETRIC VIEW

- EX: REQUIRED UNIT WEIGHT = 1000 LB
ACTUAL UNIT WEIGHT = 400 LB
ANCHOR STRENGTH REQUIRED = $(1000 \text{ LB} - 400 \text{ LB}) / 2 = 300 \text{ LB}$ (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, AND ACCOUNTING FOR ANY SAFETY FACTORS AS RECOMMENDED BY THE MANUFACTURER. IF NO SAFETY FACTOR IS GIVEN, REDUCE THE PULL TEST STRENGTH RATING BY A SAFETY FACTOR OF 3.
 - 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 DURAPLAS HURRICANE PAD/LID OR MECHANICAL UNIT AS REQUIRED.
 - FOR ANCHORAGE TO EXISTING CONCRETE, ADDITIONAL SITE-SPECIFIC ENGINEERING IS REQUIRED.

UNIT WALL PANEL OR BASE (NOT PICTURED) SHALL BE 22 GA. (0.030") MIN. THICK, YIELD STRENGTH (F_y min) = 36 ksi GALV. STEEL.



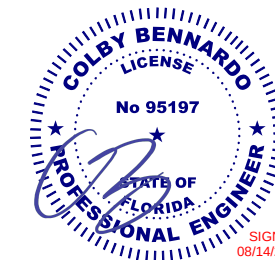
TIE-DOWN CLIP



DETAIL VIEW OF THRU-BOLT CONNECTION IN PAD'S BOLT CATCH LEDGE WITH BOLT OPTION 1

COLBY BENNARDO, P.E.
PE# 95197 CA# 9885

SPACE RESERVED FOR DIGITAL SEAL INFORMATION
WHEN DIGITALLY SEALED, THIS NOTE SHALL BE FULLY COVERED ON SHEET 1
WHEN PRINTED OR PHYSICALLY SEALED, SEAL OF CERTIFYING ENGINEER, AND DATE OF CERTIFICATION SHALL BE SHOWN TO THE RIGHT.
IN ALL CASES, CERTIFYING ENGINEER AND CERT OF AUTH AS LISTED ON STAMP



FL 47568.1

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DURAPLAS INC.

16400 MIDWAY RD
ADDISON, TX 75001
(774) 254-2089

DURAPLAS PLASTIC HURRICANE PADS
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#47568.1)

REMARKS	DATE	DRWN	CHKD
PREV SUBMITTAL (25-96602)	02/09/26	EPR	CCB
2026 FBC UPDATE	08/20/26	EPR	CCB

26-98606

SCALE: NTS UNLESS NOTED

02 OF 3

*NOTE: PER THE CODES AND STANDARDS REFERENCED HEREIN, UPLIFT IS NOT REQUIRED FOR MECHANICAL EQUIPMENT AT-GRADE AND IS NOT CONSIDERED IN THE DESIGN HEREIN. IF UPLIFT AT-GRADE IS REQUIRED BY THE AHJ, CONTACT ENGINEERING EXPRESS FOR A SITE-SPECIFIC EVALUATION.

COLBY BENNARDO, P.E. PE# 95197 CA# 9885	
SPACE RESERVED FOR DIGITAL SEAL INFORMATION	
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WHEN PRINTED OR PHYSICALLY SEALED, SEAL OF CERTIFYING ENGINEER, AND DATE OF CERTIFICATION SHALL BE SHOWN TO THE RIGHT.	
IN ALL CASES, CERTIFYING ENGINEER AND CERT OF AUTH AS LISTED ON STAMP	

36" x 36" x 5" PAD					
UP TO Vult = 180 mph MAX. & EXPOSURE D:					
UNIT MAX DIMENSIONS			MIN. REQUIRED UNIT WEIGHT	LOADING APPLIED	
SHORT SIDE	LONG SIDE	UNIT HEIGHT		LATERAL FORCE	OVERTURNING MOMENT
24 IN	24 IN	25 IN	290 LB	635 LB	815 LB-FT
		33 IN	505 LB	625 LB	1010 LB-FT
28 IN	28 IN	25 IN	405 LB	715 LB	920 LB-FT
		33 IN	660 LB	710 LB	1150 LB-FT
30 IN	30 IN	25 IN	470 LB	760 LB	980 LB-FT
		28 IN	560 LB	750 LB	1060 LB-FT
		31 IN	665 LB	750 LB	1155 LB-FT
32 IN	32 IN	28 IN	635 LB	795 LB	1125 LB-FT
		36 IN	950 LB	805 LB	1410 LB-FT

NOTE: TOTAL PAD WEIGHTS SHALL BE 215 lb MIN. FOR THE 36" x 36" x 5" PAD, AND 245 lb MIN. FOR THE 40" x 40" x 5" PAD.

STEP 1: CONFIRM YOUR SITE'S REQUIRED, MAXIMUM WIND (Vult) CONDITIONS FOR USE WITH THIS PERFORMANCE EVALUATION AND USE THE CORRESPONDING TABLE AS IS PERMITTED.

STEP 3: FIND NET WEIGHT OF MECHANICAL UNIT AS REPORTED BY THE MANUFACTURER.

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

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 TO DIRECTIVES ON PAGE 2 FOR ADDITIONAL INFORMATION.

40" x 40" x 5" PAD					
UP TO Vult = 180 mph MAX. & EXPOSURE D:					
UNIT MAX DIMENSIONS			MIN. REQUIRED UNIT WEIGHT	LOADING APPLIED	
SHORT SIDE	LONG SIDE	UNIT HEIGHT		LATERAL FORCE	OVERTURNING MOMENT
24 IN	24 IN	25 IN	225 LB	675 LB	870 LB-FT
		33 IN	420 LB	660 LB	1065 LB-FT
28 IN	28 IN	25 IN	340 LB	765 LB	985 LB-FT
		33 IN	565 LB	745 LB	1210 LB-FT
30 IN	30 IN	25 IN	400 LB	810 LB	1045 LB-FT
		28 IN	480 LB	795 LB	1125 LB-FT
		31 IN	575 LB	795 LB	1220 LB-FT
32 IN	32 IN	28 IN	550 LB	845 LB	1195 LB-FT
		36 IN	835 LB	850 LB	1480 LB-FT
34 IN	34 IN	26 IN	555 LB	900 LB	1200 LB-FT
		28 IN	620 LB	895 LB	1265 LB-FT
		32 IN	760 LB	890 LB	1405 LB-FT
		36 IN	920 LB	895 LB	1565 LB-FT
		39 IN	1055 LB	910 LB	1700 LB-FT
36 IN	36 IN	27 IN	655 LB	950 LB	1300 LB-FT
		32 IN	845 LB	945 LB	1490 LB-FT
		40 IN	1200 LB	965 LB	1845 LB-FT
		46 IN	1515 LB	1000 LB	2160 LB-FT
		52 IN	1870 LB	1045 LB	2515 LB-FT
37 IN	37 IN	46 IN	1575 LB	1025 LB	2220 LB-FT
		52 IN	1940 LB	1070 LB	2585 LB-FT

NOTE: "UP TO EXPOSURE C" INCLUDES EXPOSURE CATEGORIES B AND C.
"UP TO EXPOSURE D" INCLUDES ALL EXPOSURE CATEGORIES (B, C, AND D).

ULT WIND VELOCITY TABLE INCLUDES A QUICK REFERENCE OF COMMON FLORIDA CONDITIONS (AT ULTIMATE DESIGN WIND VELOCITIES) & CORRESPONDING ALLOWABLE STRESS DESIGN (ASD) LATERAL WIND PRESSURES. FOR SITE-SPECIFIC CONDITIONS, CONSULT LOCAL BUILDING MUNICIPALITY. MAXIMUM ASD LATERAL 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 ON PAGE 1.



SCALE: NOT TO SCALE
DETAIL IS FOR ILLUSTRATIVE PURPOSES;
UNIT & PAD APPEARANCE MAY VARY.
CENTER UNIT ON PAD, TYP.
SEE TABLES HEREIN FOR PERMITTED UNIT AND PAD SIZES.

[illegible]