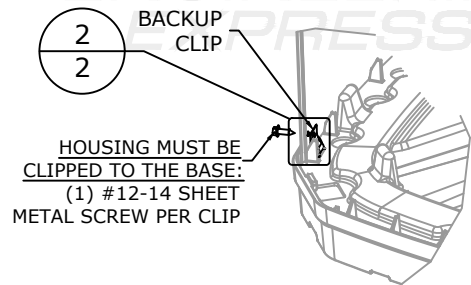


# TRANE TECHNOLOGIES

AMERICAN STANDARD CONDENSER (GROUND MOUNTED)  
VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)

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

NOTE: THIS EVALUATION CERTIFIES BOTH UNIT INTEGRITY AND ANCHORAGE TO HOST STRUCTURE FOR WIND RESISTANCE (FOR AT-GRADE USE ONLY). SEE LIMITATIONS HEREIN.



"BACKUP CLIP" ATTACHMENT  
SCALE: N.T.S. ISOM.

NOTE: SEE NEXT PAGE FOR ADDITIONAL PRODUCT INSTALLATION DETAILS AND ANCHOR SCHEDULE TABLE.

## GENERAL NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) & ASCE 7-22. THIS SYSTEM MAY BE USED WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ). THIS DESIGN IS NOT INTENDED TO CERTIFY IMPACT RESISTANCE OF THE MECHANICAL UNIT CABINETY.
- DESIGN & CERTIFICATION OF THE UNIT CABINETY IS APPROVED THROUGH TEST REPORT #0708.01-15 BY AMERICAN TEST LAB OF SOUTH FLORIDA. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY 1.5 SAFETY FACTOR. PRESSURE VALUES IN THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS AND THE MINIMUM WEIGHT OF MECHANICAL UNIT SHALL CONFORM TO LIMITATIONS STATED HEREIN. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION INC., AND ANY APPLICABLE FEDERAL, STATE AND OR LOCAL CODES. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- ALL CONCRETE SPECIFIED HEREIN IS NOT PART OF THIS CERTIFICATION. AS A MINIMUM, ALL CONCRETE SHALL BE STRUCTURAL CONCRETE 4" MIN. THICK AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- THE ADEQUACY OF ANY EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS SHALL BE VERIFIED BY THE ONSITE DESIGN PROFESSIONAL AND IS NOT INCLUDED IN THIS CERTIFICATION.
- BASEPANEL MATERIAL CHOPPED FIBER LAMINATE W/ Fy=15 KSI. PLASTIC COMPONENTS USED WITHIN THE HVHZ MUST MEET ALL APPLICABLE FIRE/SMOKE/UV PERFORMANCE REQUIREMENTS AS SET FORTH IN THE ABOVE-NOTED BUILDING CODE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- WATER-TIGHTNESS OF EXISTING HOST SUBSTRATE 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.
- ENGINEER SEAL AFFIXED HERETO VALIDATE 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.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, AND OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

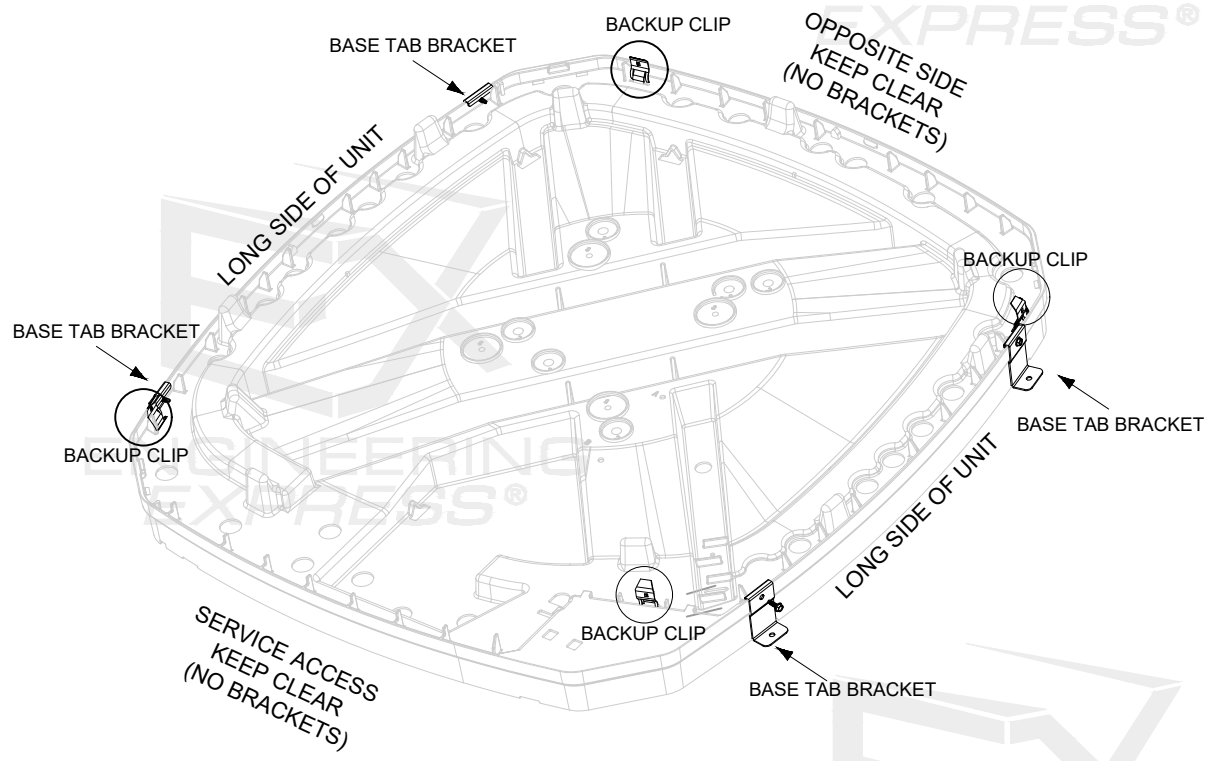
## TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS MAY APPEAR IN THIS APPROVAL:

"ADDTL." FOR "ADDITIONAL", "AHJ" FOR "AUTHORITY HAVING JURISDICTION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "BO" FOR "BUILD-OUT", "CS" FOR "CARBON STEEL", "EA." FOR "EACH", "E.D./"EDGE/"EDGE DIST." FOR "EDGE DISTANCE", "ELEV" FOR "ELEVATION", "EMBED" FOR "EMBEDMENT", "EQ/"EQUIV." FOR "EQUIVALENT", "EXT" FOR "EXTERIOR", "FBC" FOR "FLORIDA BUILDING CODE", "ft" OR " ' " FOR "FEET", "G" FOR "SPECIFIC GRAVITY", "GA" FOR "GAUGE", "GALV" FOR "GALVANIZED", "GFB" FOR "GROUT-FILLED BLOCK", "GR" FOR "GRADE", "HOLLOW" FOR "HOLLOW BLOCK", "HORIZ" FOR "HORIZONTAL", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "in" OR " ' " FOR "INCHES", "INT" FOR "INTERIOR", "KSI" FOR "1,000 lb / in<sup>2</sup>", "L" FOR "LENGTH", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "MIN" FOR "MINIMUM", "N.T.S." FOR "NOT TO SCALE", "O.C." FOR "ON-CENTER", "P.E." FOR "PROFESSIONAL ENGINEER", "PERP" FOR "PERPENDICULAR", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft<sup>2</sup>)", "PSI" FOR "POUNDS PER SQUARE INCH (lb/in<sup>2</sup>)", "QTY" FOR "QUANTITY", "REF." FOR "REFERENCE", "SCHED." FOR "SCHEDULE", "SDS" FOR "SELF-DRILLING SCREWS", "SMS" FOR "SHEET METAL SCREWS", "SPECS" FOR "SPECIFICATIONS", "SS" FOR "STAINLESS STEEL", "SUB" FOR "SUBMITTAL", "TAS" FOR "TESTING APPLICATION STANDARD", "TYP." FOR "TYPICAL", "ULT" FOR "ULTIMATE LOADS", "U.N.O." FOR "UNLESS NOTED OTHERWISE", "UTS" OR "Fu" FOR "ULTIMATE TENSILE STRENGTH/STRESS", "VERT" FOR "VERTICAL", "WLL" FOR "WORKING LOAD LIMIT", "W/" FOR "WITH", "W/O" FOR "WITHOUT", "YS" FOR "YIELD STRENGTH", "#" FOR "NUMBER", "&" FOR "AND", AND "Ø" FOR "DIAMETER".

VISIT [ECALC.IO/GLOSSARY](http://ECALC.IO/GLOSSARY) OR CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

**NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:**  
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LAYOUT A  
(1) BASE CLIP PER CORNER  
SCALE: N.T.S. ISOM.

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FLORIDA BUILDING CODE EIGHTH EDITION (2023)  
FLORIDA STATEWIDE APPROVAL (FSA)

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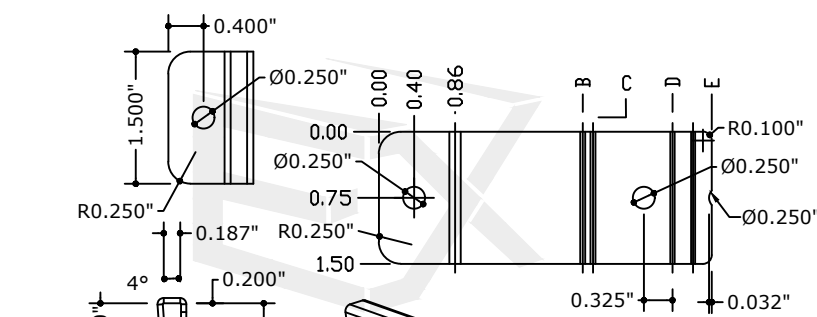
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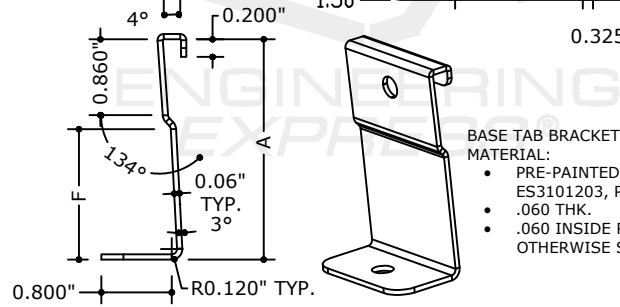
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**BACKUP CLIP MATERIAL:**

- 1050 STEEL 0.030 THK.
- 0.0002 THK. ZINC PLATE WITH CRONAK SURFACE CONVERSION.
- BEND RAD. 0.06 UNLESS OTHERWISE SPECIFIED.

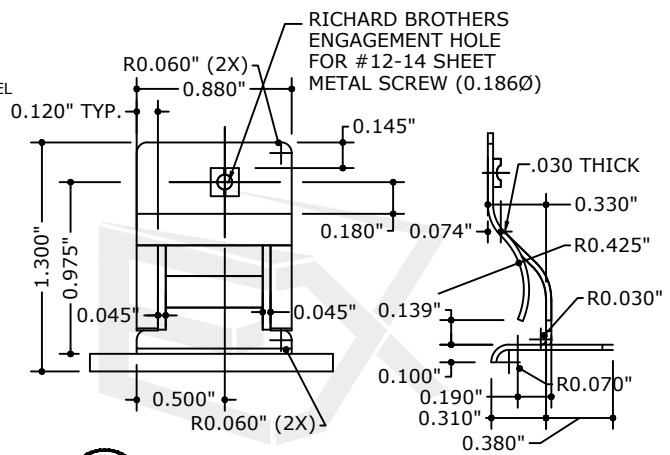


**BASE TAB BRACKET MATERIAL:**

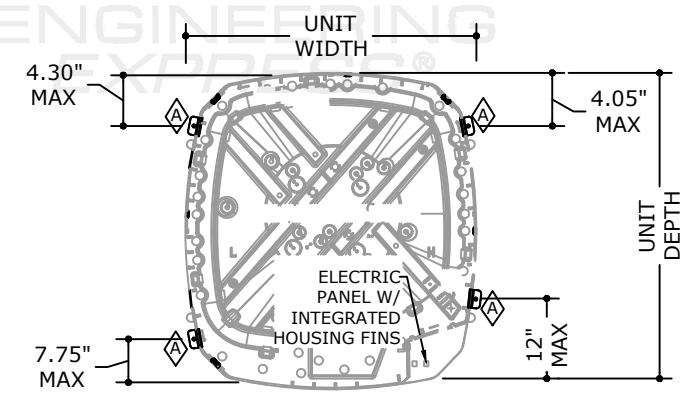
- PRE-PAINTED GALVANIZED STEEL ES3101203, PER B50MH280
- .060 THK.
- .060 INSIDE RADII UNLESS OTHERWISE SPECIFIED

PART NO.	A	B	C	D	E	F	USE WITH LAYOUT
D153086P01	2.50	2.32	2.43	3.33	3.78	1.48	A
D153086P02	2.10	1.91	2.03	2.93	3.38	1.08	A

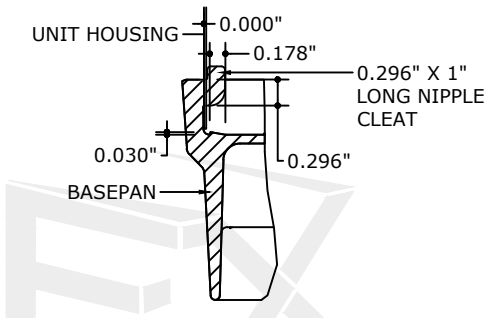
**1** BASE TAB BRACKETS  
SCALE: N.T.S.



**2** BACKUP CLIP  
SCALE: N.T.S.

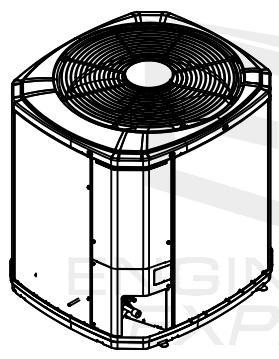


**3** CONNECTION LAYOUT A  
SCALE: N.T.S. PLAN VIEW



**4** A/C HOUSING CLEAT  
SCALE: N.T.S. SECTION

**UNIT MODEL**



**TYPICAL UNIT**

**APPLICABLE MODELS:**  
2/4A6B, 4A6C, 4A6H, 4A6Z, 4A6V,  
2/4A7B, 2/4A7C, 4A7A, 4A7Z, 4A7V,  
2TTB3, 2TWB3, 4TTB3, 4TTB6, 4TWB3,  
4TWB4, 5A6C, 5A6H, 5A6V, 5A7A, 5A7C,  
5A7V

AMERICAN STANDARD UNITS

ALLOWABLE WIND PRESSURES FOR MULTIPLE BASE BRACKET AND UNIT HOUSING CONFIGURATIONS				ALLOWABLE (ASD) WIND PRESSURE RATING	APPLICABLE ANCHOR TYPES: SEE ANCHOR NOTES FOR A DESCRIPTION OF ANCHOR TYPE #1 OR #2	LAYOUT OF BASE TAB BRACKETS:
DESIGNATION	UNIT WIDTH	UNIT DEPTH	UNIT HEIGHT			
TYPICAL UNIT	25.69 IN	28.42 IN	32.77 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPICAL UNIT	25.69 IN	28.42 IN	25.60 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPICAL UNIT	29.69 IN	32.65 IN	40.70 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPICAL UNIT	29.69 IN	32.65 IN	28.77 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPICAL UNIT*	34.29 IN	37.29 IN	45.17 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPICAL UNIT	34.29 IN	37.29 IN	29.18 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A

\*UNIT WEIGHT = 245 LB  
(DEFAULT UNIT WEIGHT = 120 LB)

**ANCHOR NOTES:**

1. SEE ISOMETRIC BASE LAYOUT (PREVIOUS PAGE) FOR ANCHOR LOCATIONS AND/OR SPACING.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. UTILIZE 0.625" O.D. x 0.280" I.D. x 0.059" THICK WASHER @ BASE CLIP.
3. ANCHOR TYPE #1: CONSIDERS HILTI KWIK-CON II+ CARBON STEEL TAPCONS OR EQUIVALENT W/ 1-3/4" MIN EMBED, 2-1/2" MIN EDGE DISTANCE AND 3" MIN SPACING (UNLESS NOTED OTHERWISE), FASTENED TO MINIMUM 3,000 PSI EXISTING CONCRETE AS VERIFIED BY OTHERS.

**TABLE DIRECTIONS:**

1. SELECT DESIRED UNIT SIZE.
  2. SELECT APPLICABLE ANCHOR TYPE UNDER CONSIDERATION AS VERIFIED BY OTHERS.
  3. MATCH UNIT SIZE WITH THE INTENDED HOST STRUCTURE AND OBSERVE MAXIMUM ALLOWABLE WIND PRESSURE FOR THE SYSTEM. SITE-SPECIFIC REQUIRED WIND PRESSURES PER SEPARATE CERTIFICATION OR BY OTHERS.
  4. UTILIZE LAYOUT AS LISTED IN TABLE.
- TIE-DOWN CONFIGURATIONS REQUIRE (1) BRACKET PER CORNER. SEE DETAIL 3/2 FOR ILLUSTRATION.

4. ANCHOR TYPE #2: CONSIDERS SHEET METAL SCREWS (SMS) AS SPECIFIED HEREIN SHALL BE MINIMUM - SAE GRADE 5 ASTM A449 - SPACED THREAD W/ MIN (5) PITCHES PAST THREAD PLANE, INTO MINIMUM 1/8" THICK A36 STEEL. USE #14-14 SMS SCREWS WITH 5/8" EDGE DISTANCE FOR STEEL HOST STRUCTURE.
5. MINIMUM EMBEDMENT SHALL BE AS NOTED. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, INSULATION, AND OTHER FINISHES.

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FLORIDA BUILDING CODE EIGHTH EDITION (2023)  
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**APPENDIX A: DESIGN WIND PRESSURE GUIDE**

Max. Ult. Wind Speed (V <sub>ult</sub> )	Max. MRH (Roof Height)	Exposure Category	Required Design Wind Pressures (ASD)	
			Lateral Pressure	Uplift Pressure
140 mph	At-Grade (0 ft)	C	± 26 psf	0* psf
		D	± 31 psf	0* psf
175 mph	At-Grade (0 ft)	C	± 40 psf	0* psf
		D	± 49 psf	0* psf
186 mph	At-Grade (0 ft)	C	± 46 psf	0* psf
		D	± 54 psf	0* psf

±100 psf

Note: Any table values with the format shown left, if present, indicate design wind pressures and site conditions that are **not approved for use** by this evaluation. Seek additional engineering or contact this firm for design solutions.

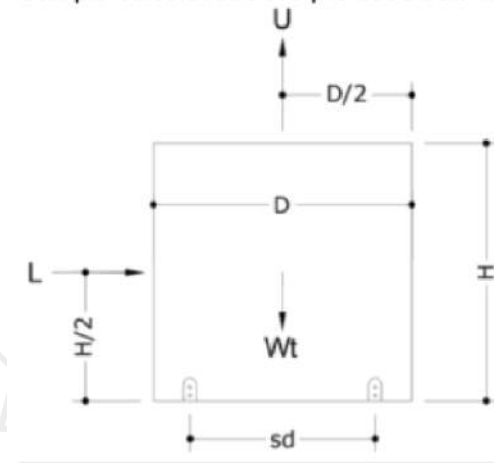
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**UNIT REACTIONS FROM WIND GUIDE**

**DIRECTIVE:** This guide is intended for use by a design professional. Design parameters shall abide all specifications and limitations stated in this report. Design professional shall consider all forces, including seismic and snow loads, per the governing building code. Unit reactions obtained from this guide shall be verified by a registered Professional Engineer. Reactions are applicable for unit-to-host connections only. Sample calculations are provided below.



**Design Parameters:**

- Lateral Wind Pressure, P<sub>lat</sub>
- Unit Height, H
- Unit Width, W
- Support Spacing across Depth, sd
- Uplift Wind Pressure, P<sub>up</sub>
- Unit Depth, D
- Unit Weight, Wt
- Support Spacing across Width, sw

**Unit Reaction Equations:**

- Long Side (Width x Height):**
- Sliding Force, L = P<sub>lat</sub> x W x H
  - Uplift Force, U = P<sub>up</sub> x W x D
  - Total Tension per Long Side = ( L x H/2 + U x sd/2 - Wt x 0.6 x sd/2 ) / sd
- Short Side (Depth x Height):**
- Sliding Force, L = P<sub>lat</sub> x D x H
  - Uplift Force, U = P<sub>up</sub> x W x D
  - Total Tension per Short Side = ( L x H/2 + U x sw/2 - Wt x 0.6 x sw/2 ) / sw

**Example:** A (48" W x 36" D x 42" H), 250 lb net weight unit at wind pressures of 120 psf lateral and 95 psf uplift, on a 24" wide roof stand, shall have the following unit reactions:

**Long Side (Width x Height):**

- Sliding Force, L = P<sub>lat</sub> x W x H = (120 psf) x (48 in) x (42 in) x (1 in<sup>2</sup> / 144 ft<sup>2</sup>) = **1680 lb**
- Uplift Force, U = P<sub>up</sub> x W x D = (95 psf) x (48 in) x (36 in) x (1 in<sup>2</sup> / 144 ft<sup>2</sup>) = **1140 lb**
- Total Tension per Long Side = ( L x H/2 + U x sd/2 - Wt x 0.6 x sd/2 ) / sd = ( (1680 lb x 42/2 in) + (1140 lb x 24/2 in) - (250 lb x 0.6 x 24/2 in) ) / 24 in = **1965 lb**

**Short Side (Depth x Height):**

- Sliding Force, L = P<sub>lat</sub> x D x H = (120 psf) x (36 in) x (42 in) x (1 in<sup>2</sup> / 144 ft<sup>2</sup>) = **1260 lb**
- Uplift Force, U = P<sub>up</sub> x W x D = (95 psf) x (48 in) x (36 in) x (1 in<sup>2</sup> / 144 ft<sup>2</sup>) = **1140 lb**
- Total Tension per Short Side = ( L x H/2 + U x sw/2 - Wt x 0.6 x sw/2 ) / sw = ( (1260 lb x 42/2 in) + (1140 lb x 48/2 in) - (250 lb x 0.6 x 48/2 in) ) / 48 in = **1046 lb**

**DIRECTIVE:** This design pressure guide is for reference only and shall be approved for use by the Authority Having Jurisdiction (AHJ). If the design pressures listed in this guide are not used, required design pressures shall be calculated separately. For site-specific scenarios classified as Exposure Category B, the required design pressures stated for Exposure Category C in the above guide shall be used or design pressures shall be calculated separately. For heights and parameters beyond the parameters listed in this guide, visit our Online Calculator via the website link (<https://ecalculator.com/forces>) or QR Code below, or obtain calculations separately by others.

The required ASD design pressures listed in this guide were calculated per the table's listed corresponding site conditions. The project design professional or permitting contractor shall verify that the site-specific conditions are equal to or less than the approved design parameters listed in the guide. Per the note below table: any values shown as "XX psf", indicate wind pressures and corresponding site conditions that are **not valid for use** with this evaluation (exceeds the max. rated pressures).

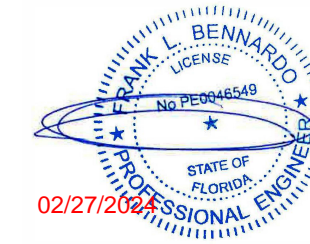
\*Note: Per the codes and standards referenced herein, uplift is not required for mechanical equipment at-grade. If uplift at-grade is required by the AHJ, contact this firm for a site-specific evaluation.

**At-Grade (0 ft MRH) Required Design Pressures:**

- o ASCE 7 "Design Wind Loads: Other Structures"
- o Structure Shape = Square, flat terrain
- o Height of structure (unit + stand or curb, if used) = 6 ft max.
- o Width of unit = 1 ft min., Depth of unit = 11 in min.

FRANK BENNARDO, P.E.  
PE# 0046549 CA# 9885

FEBRUARY 19, 2024



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