

PRODUCT APPROVAL FOR ALUMINUM STANDS FOR ROOF TOP EQUIPMENT

- 1- THIS EQUIPMENT UNIT STAND SYSTEM SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2026 (9th EDITION) OF THE FLORIDA BUILDING CODE, FOR USE WITHIN THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND OUT OF IT. DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED SEPARATELY ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE USING ASD METHODOLOGY, IN ACCORDANCE WITH ASCE 7-22 AND SECTIONS 1616.1, 1620.1, 1620.6 & 1609 OF THE FLORIDA BUILDING CODE, AND SHALL BE LESS THAN OR EQUAL TO THE LATERAL AND UPLIFT DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
- 2- THE ARCHITECT/ENGINEER OF RECORD FOR THE EXISTING STRUCTURE THAT WILL SUPPORT THESE ALUMINUM STANDS SHALL BE RESPONSIBLE FOR ITS INTEGRITY AND SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND THE SUPERIMPOSED LOADS (ASD) - REF "REACTION SCHEDULE" INDICATED ON SHEET 6, WHERE REACTION FORCES ARE LISTED FOR USE WITH EXISTING STRUCTURE. DESIGN PROFESSIONAL OF RECORD SHALL VERIFY APPLICABILITY AND/OR ADDITIONAL FACTORS FOR USE WITH EXISTING STRUCTURE VERIFICATION.
- 3- STAND SHALL BE INSTALLED WITH MINIMUM CLEAR HEIGHT AS SPECIFIED IN THE ABOVE-NOTED BUILDING CODE. "STAND HEIGHT" AS USED HEREIN IS NOT NECESSARILY EQUIVALENT TO "STAND CLEAR HEIGHT" AS SPECIFIED IN THE BLDG CODE. STANDS SHALL BE INSTALLED WITH A MINIMUM CLEAR HEIGHT IN ACCORDANCE WITH SECTIONS 1522 & 1510 TABLES 1522.3 & 1510.10 OF THE FLORIDA BUILDING CODE, APPLICABLE TO HIGH VELOCITY HURRICANE ZONE & ZONES OUT OF IT, RESPECTIVELY.
- 4- VIBRATION ISOLATOR PADS SHALL BE PROVIDED BY OTHERS BETWEEN UNITS & STAND. SEE SHEET 6 FOR LIMITATIONS ON EQUIPMENT TIE DOWN DETAILS TO STAND.
- 5- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT FASTENING AS SHOWN HEREIN WILL NOT VOID THE EQUIPMENT MANUFACTURER'S WARRANTY, ESPECIALLY WHERE UNITS ARE INSTALLED WITH OVERHANG PAST RAIL (SEE TIE-DOWN DETAILS). STRUCTURAL ADEQUACY OF EQUIPMENT FOR WIND RESISTANCE IS NOT PART OF THIS APPROVAL AND MUST BE VERIFIED SEPARATELY.
- 6- 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.
- 7- MAXIMUM DIMENSIONS AND WEIGHT OF MECHANICAL UNITS SHALL CONFORM TO SPECIFICATIONS STATED HEREIN, SEE SHEETS 5 AND 7 THRU 10 FOR LIMITATIONS.
- 8- ALL SCREWS & BOLTS SHALL BE AS SPECIFIED ON THIS DRAWING, AND SHALL COMPLY WITH SECTIONS 2411.3.3.4 & 1711 OF THE FLORIDA BUILDING CODE.
- 9- ALL ALUMINUM EXTRUSIONS SHALL BE 6061-T6 ALLOY & TEMPER, UNLESS NOTED OTHERWISE. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D 1.2 REQUIREMENTS, USING 5356 FILLER ALLOYS.
- 10- ALL EXISTING CONCRETE SUBSTRATE SHALL HAVE MINIMUM f_c COMPRESSIVE STRENGTH OF 3000 PSI AS VERIFIED BY OTHERS.
- 11- ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.
- 12- 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 ON THIS DOCUMENT.

- 13- 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.
- 14- (a) THIS P.E.D. (PRODUCT EVALUATION DOCUMENT) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
- (e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
- 15- PRODUCT MANUFACTURER'S LABEL SHALL BE PLACED ON AN EXPOSED SURFACE OF STAND, INCLUDING MANUFACTURER'S NAME, CITY WHERE LOCATED AND THE FLORIDA PRODUCT APPROVAL NUMBER.

SHEET #	INDEX
	DESCRIPTION
1	GENERAL NOTES AND INDEX
2	BILL OF MATERIALS AND COMPONENTS
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4	STAND ASSEMBLY DETAILS (CONTINUED)
5	SCHEDULE NOTES/ANCHOR SCHEDULE/REACTION SCHEDULE
6	EQUIPMENT UNIT TIE DOWN TO RAILS STANDS
7	SCHEDULE FOR MAX. PRESSURE $DS \geq 20"$ UP TO $36"$; $HU=24", 28", 32"$; $HS=18", 24" \& 30"$
8	SCHEDULE FOR MAX. PRESSURE RATING W/ $DS \geq 20"$ UP TO $36"$; $HU=36"$; $HS=18", 24" \& 30"$
9	SCHEDULE FOR MAX. PRESSURE $DS \geq 20"$ UP TO $36"$; $HU=42"$; $HS=18", 24" \& 30"$
10	SCHEDULE FOR MAX. PRESSURE $DS \geq 20"$ UP TO $36"$; $HU=48"$; $HS=18", 24" \& 30"$

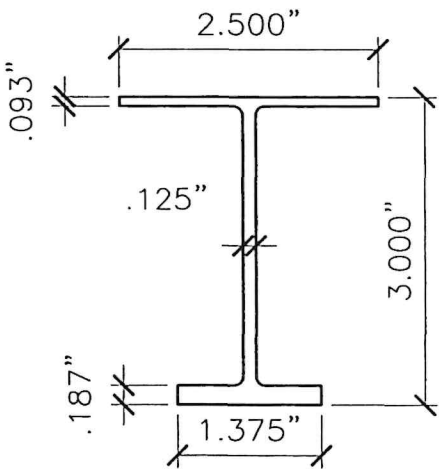
THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)	
ALUMINUM STANDS FOR ROOF TOP EQUIPMENT	DRAWN BY: W.H. DATE: 6/26/2026
F&L ALUMINUM PARTS, INC. 2087 N. POWERLINE RD. SUITE #1 POMPANO BEACH, FL. 33069	26-082 DRAWING No
SHEET 1 OF 10	
© 2026 TILTECO INC.	
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 NW 36th St. Ste. 305 VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	
STATE OF FLORIDA Professional Engineer Seal Signature: [Signature] Date: [Date]	

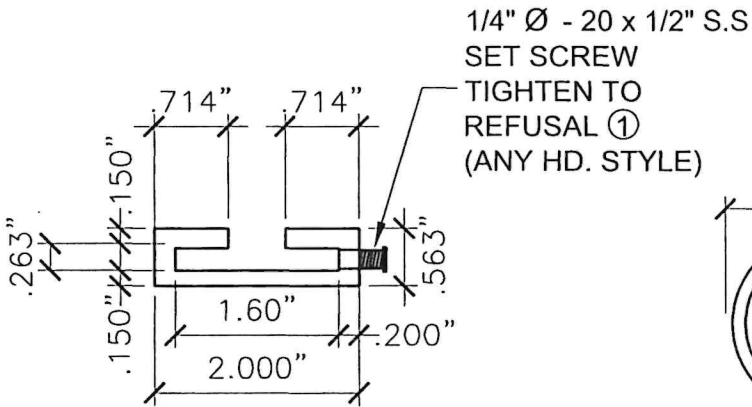
BILL OF MATERIALS:

COMPONENT No.	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
①	RAIL (I-BEAM)	2.50" X 1.375" X 3"	6061-T6 ALLOY	-	SUPPORT FOR ROOF TOP EQUIPMENT FIT AND ADJUSTED INTO ③
②A	LARGE STRUT TUBING	1.50" X 1.50" X 0.093"	6061-T6 ALLOY	-	WIND BRACING COMPONENT WELDED TO ④ & BOLTED TO ②B
②B	SMALL STRUT TUBING	1.25" X 1.25" X 0.125"	6061-T6 ALLOY	-	WIND BRACING COMPONENT WELDED TO ④ & BOLTED TO ②A
③	TOP CHANNEL	2.00" X 0.563" X 0'-2 1/2"	6061-T6 ALLOY	-	WELDED TO TOP OF ④ TO RECEIVE ①
④	POST	1.75" X 0.125" THK.	6061-T6 ALLOY	-	WELDED TO ⑤, ②A, ②B & ③
⑤	BASE PLATE	5" X 5" X 1/4"	6061-T6 ALLOY	-	WELDED TO ④ & ANCHORED TO EXISTING STRUCTURE (SEE SHEET 5 FOR SPECS.)

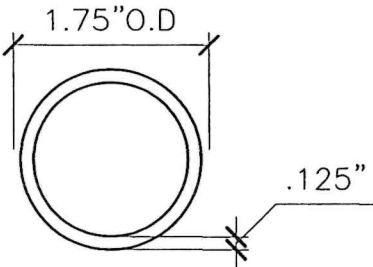
COMPONENTS



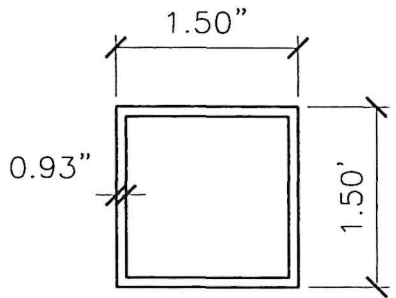
① **RAIL (I-BEAM)**
1/2" = 0'- 1"



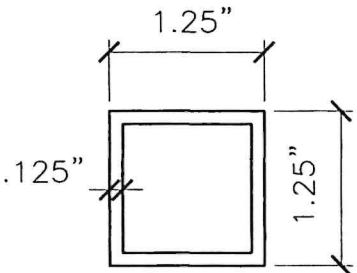
③ **TOP CHANNEL (2.50" LONG)**
1/2" = 0'- 1"



④ **POST**
1/2" = 0'- 1"

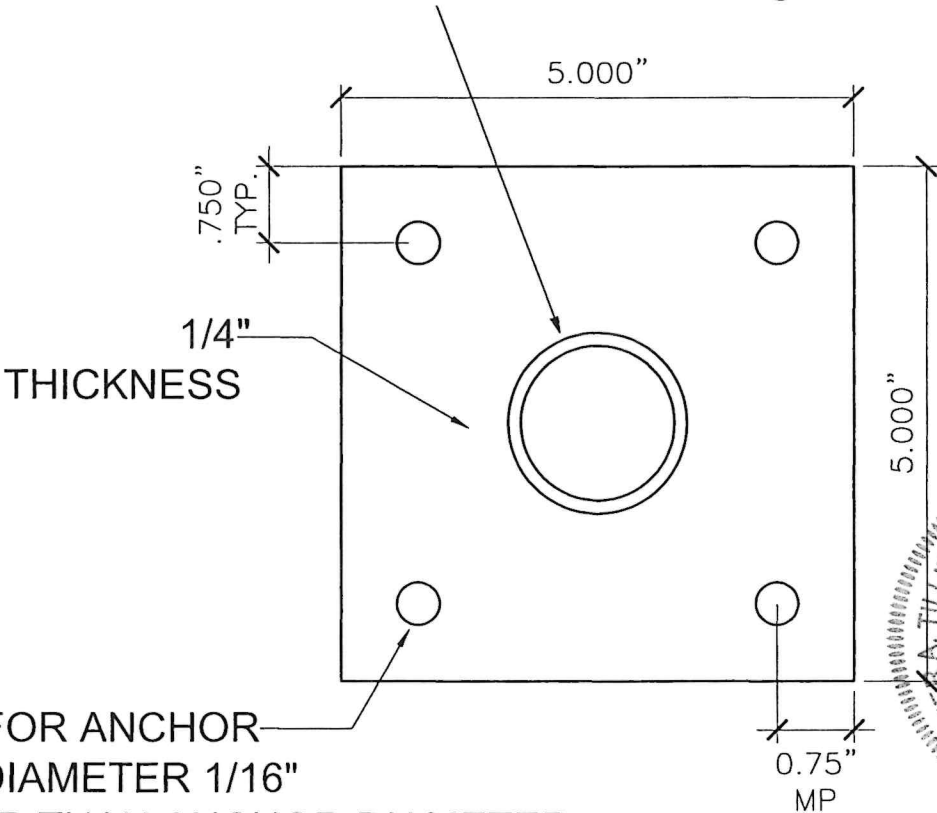


②A **LARGE STRUT TUBING**
1/2" = 0'- 1"



②B **SMALL STRUT TUBING**
1/2" = 0'- 1"

POST ④ LOCATION
(CENTERED) W/ OPTIONAL 1.75" DIAM HOLE AT CENTER TO FIT ④

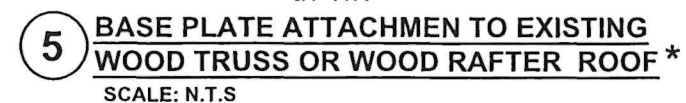
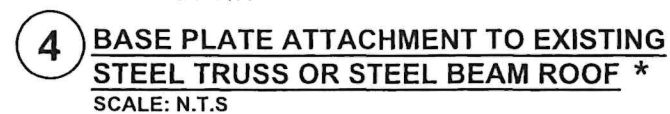
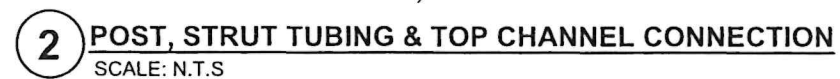


⑤ **BASE PLATE**
3/8" = 0'- 1"

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)	ALUMINUM STANDS FOR ROOF TOP EQUIPMENT	F&L ALUMINUM PARTS, INC. 2087 N. POWERLINE RD. SUITE #1 POMPAHO BEACH, FL 33069	DATE 6/26/2026	DRAWN BY: W.H.	DATE 6/26/2026	26-082 DRAWING No	SHEET 2 OF 10
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION
1	1	6/26/2026	1	1	6/26/2026	1	1

TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 Hwy. 386, Suite 100, Pompano Beach, FL 33069
Phone: (954) 971-1330 Fax: (954) 971-1331
e-mail: tillitco@aol.com
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

Professional Engineer Seal for Walter A. Tillit Jr., P.E., License No. 44167, State of Florida.



TYPICAL ASSEMBLY AND POST ATTACHMENT DETAILS FOR STANDS
*** DETAILS ARE SCHEMATIC: ACTUAL JOB CONDITIONS SHALL BE ADDRESSED & CERTIFIED THRU A SITE SPECIFIC ENGINEERING.**

NOTES APPLICABLE TO SCHEDULES ON SHEETS 7 THRU 10

1. SCHEDULES ON SHEETS 7 THRU 10 PROVIDE MAXIMUM A.S.D LATERAL & UPLIFT WIND LOADS FOR EACH COMBINATION OF TOTAL UNIT FRONTAL AREA (AF), STAND DEPTH (DS), EQUIPMENT HEIGHT(HU), STAND HEIGHT (HS) AND NUMBER OF POST FRAMES (N) PER STAND.
2. TOTAL FRONTAL AREA IS TOTAL AREA OF EQUIPMENT UNIT FACE PARALLEL TO RAIL① (EQUAL TO TOTAL SUM OF UNIT HEIGHT (IN) x UNIT WIDTH (IN) FOR ALL UNITS ON STAND), AS DEPICTED HEREIN.
3. UNIT HEIGHT (HU) INCHES INCLUDED IN SCHEDULE SHALL BE DEFINED AS FOLLOWS: AVERAGE HEIGHT OF ALL UNITS IF THE DIFFERENCE IN HEIGHT BETWEEN TWO ADJACENT UNITS DOES NOT EXCEED 8", OR MAX UNIT HEIGHT OF INSTALLATION IF THE ABOVE CONDITION IS NOT COMPLIED WITH. MAX. UNIT HEIGHT IS 48"
4. STAND HEIGHT (HS), INCHES, IS AS DEPICTED HEREIN, MEASURE FROM HOST STRUCTURE TO BOTTOM OF RAIL①
5. "FRAMES" HERE DENOTES ASSEMBLAGE OF 2 POSTS ④ WITH STRUTS ②A, ②B. PERPENDICULAR TO RAILS①
6. EACH EQUIPMENT UNIT SHALL HAVE A MAXIMUM WEIGHT OF 500 lbs & A MIN.WEIGHT OF 75 LBS. SEE GENERAL NOTE 5 ON SHEET 1
7. SPACING OR CLEARANCE BETWEEN UNITS MAY VARY, BASED ON UNITS MANUFACTURER SPECS.
8. REFERENCE ANCHOR SCHEDULE BELOW FOR ALLOWABLE ANCHORS AND INSTALLATION CRITERIA, BASED ON SUBSTRATE AT ROOF.
9. EQUIPMENT UNITS SHALL BE ATTACHED TO RAILS ① PER UNIT CONNECTION DETAILS ON SHEET 6. AND AS PER ACCOMPANYING NOTES BASED ON MANUFACTURER'S SPECS.

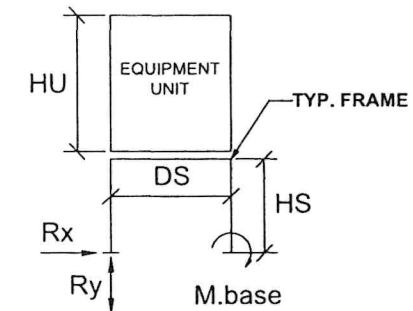
ANCHORS SCHEDULE

SUBSTRATE											
CONCRETE 				STEEL 				WOOD 			
MANUFACTURER	DIAMETER	MIN. E.D.	MIN. EMB'D'T	MANUFACTURER	DIAMETER	MIN. E.D.	MIN. EMB'D'T	MANUFACTURER	DIAMETER	MIN. E.D.	MIN. EMB'D'T
DEWALT GALV. SCREW BOLT	3/8"	5"	2"	DEWALT	5/16"-24	5/8"	FULL THREAD ENGAGEMENT	N/A	3/8"	1 1/2"	3 1/2"
HILTI INC 304 S.S KWIK BOLT 3	3/8"	5"	2-3/8"	HEX WASHER HEAD S.S DRILL FLEX STRUCTURAL DRILL SCREWS				NDS S.S LAG SCREWS			

- △ NOTES: 1 - CONCRETE TO BE MIN f'_c = 3 KSI.**
2 - STEEL TO BE MIN ASTM A-36, 1/4" MIN THICK.
3 - WOOD TO BE G=0.55 SOUTHERN YELLOW PINE # 2,
MINIMUM 4" THICK.
4- ONLY STAINLESS STEEL ANCHORS SHALL BE USED AT
INSTALLATIONS WITHIN 300 ft. FROM COASTAL
SHORELINE.

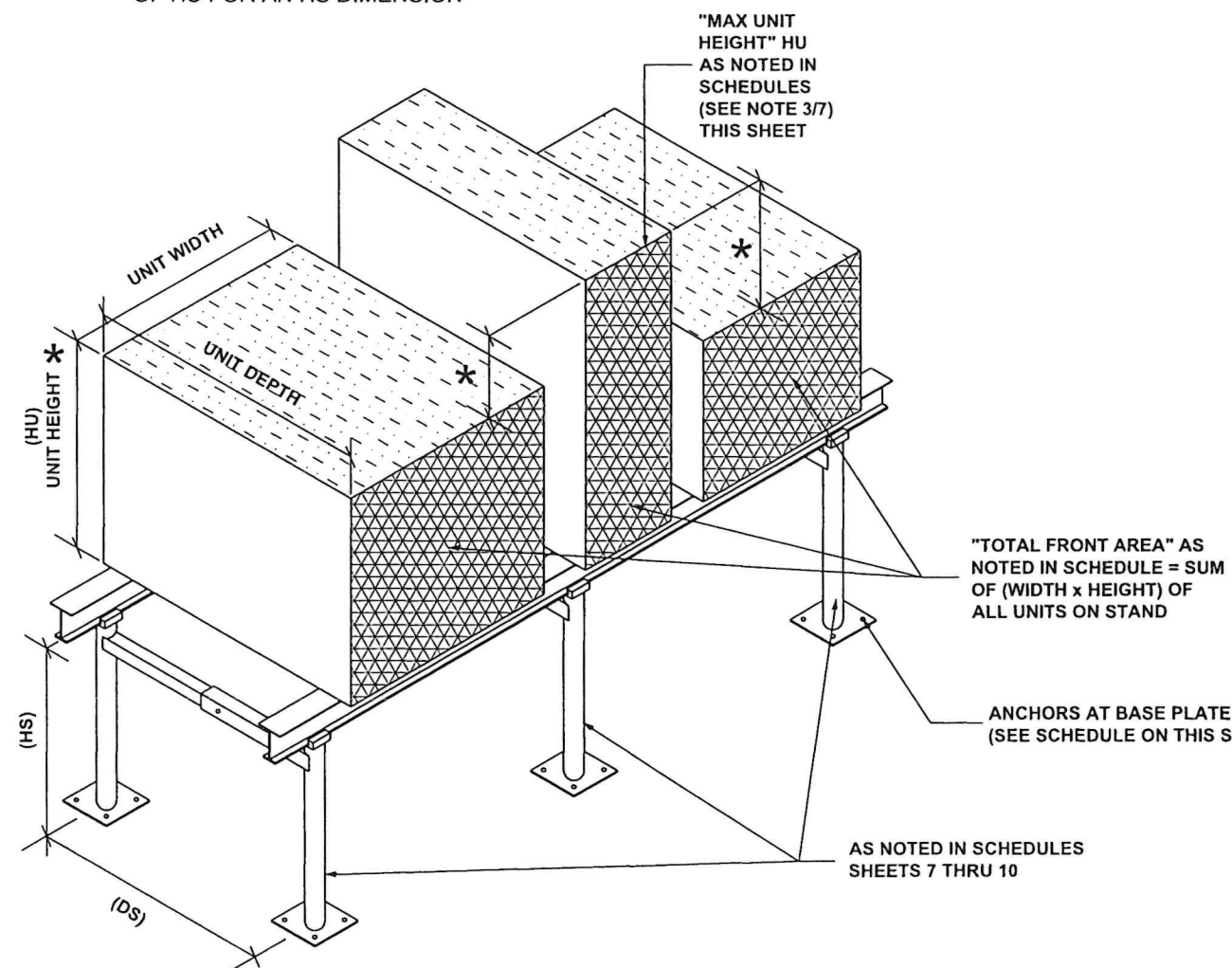
****REACTION SCHEDULE: SEE NOTE 2/1**

REACTION AT BASE Rx	REACTION AT BASE Ry	REACTION AT BASE M.base
300 LB	600 LB	3.5 K-IN



SIDE VIEW

**** REACTIONS CORRESPOND TO THE WORST CASE FORCE APPLIED AT BASE PLATE FOR ANY COMBINATION OF DS OF HU FOR AN HS DIMENSION**



UNIT SIZES & CONFIGURATION (FOR USE WITH DESIGN SCHEDULES)

SCALE: 1/4" = 1'-0" ISOMETRIC

* SEE NOTE 3 THIS SHEET

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)									
ALUMINUM STANDS FOR ROOF TOP EQUIPMENT				DRAWN BY: W.H.			6/26/2026 DATE		
F&L ALUMINUM PARTS, INC. 2087 N. POWERLINE RD. SUITE #1 POMPANO BEACH, FL. 33069									
26-082 DRAWING No									
SHEET 5 OF 10									

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TILIT TESTING & ENGINEERING COMPANY

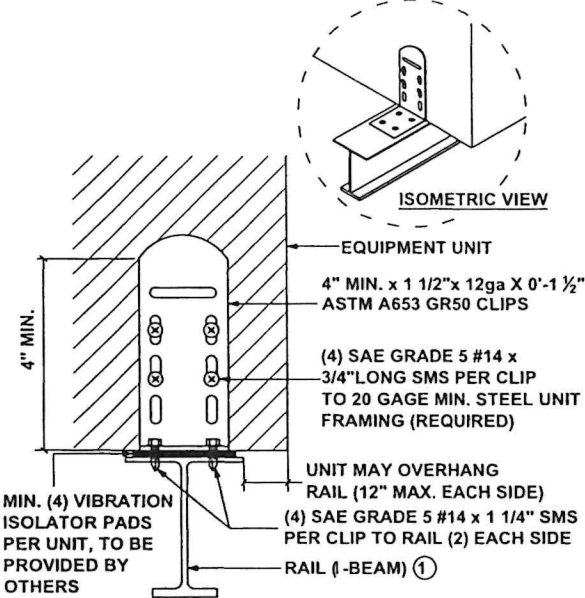
Attn: John A. Tilt, Jr., President
1355 W. John St., Suite 150, Fort Lauderdale, FL 33368
Phone: (954) 919-1530 Fax: (954) 971-1531
e-mail: tiltteco@aol.com

CA-0006719
WALTER A. TILIT JR., P.E.
FLORIDA Lic. # 44167

E
 SHEET

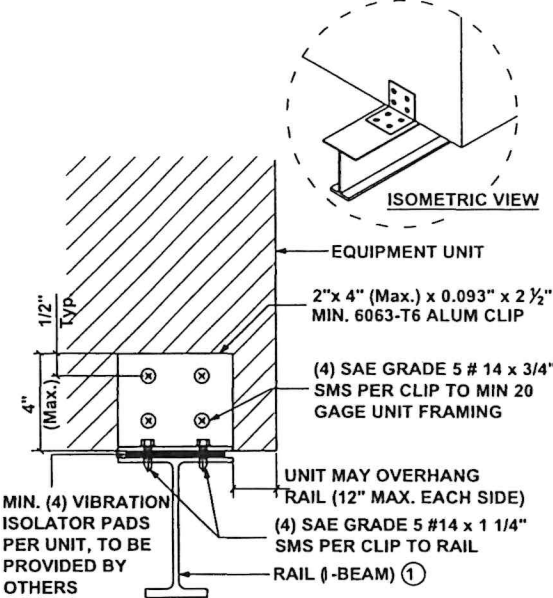
No. 44167
 STATE OF FLORIDA
 WATER POLLUTION CONTROL BOARD
 PROFESSIONAL ENGINEER
 P.E. SIGNATURE/DATE
[Signature]

GENERIC * EQUIPMENT UNIT ANCHORAGE TO RAIL ①:
***SEE NOTES BELOW FOR ADDITIONAL GUIDELINES FOR TIE DOWN OF EQUIPMENT TO STANDS**



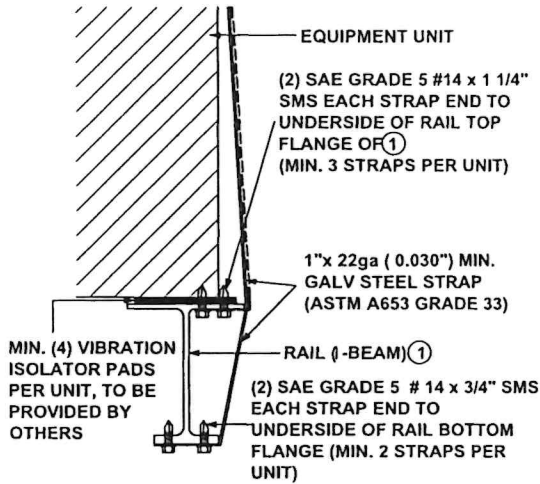
TYPICAL CONNECTION:
 -MINIMUM (4) PER UNIT-

1 CLIPPED UNIT CONNECTION
 SCALE: N.T.S ELEVATION



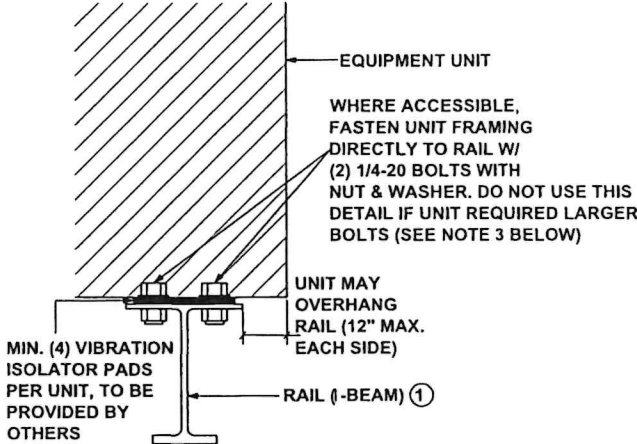
TYPICAL CONNECTION:
 -MINIMUM (4) PER UNIT-

2 CLIPPED UNIT CONNECTION
 SCALE: N.T.S ELEVATION



TYPICAL CONNECTION:
 -MINIMUM (4) PER UNIT-

3 STRAPPED UNIT CONNECTION
 SCALE: N.T.S ELEVATION



TYPICAL CONNECTION:
 -MINIMUM (4) PER UNIT-

4 DIRECT UNIT CONNECTION
 SCALE: N.T.S ELEVATION

*** ADDITIONAL NOTES WITH GUIDELINES AND REFERENCES FOR PERFORMING UNIT'S TIE DOWN TO STANDS:**

- IF EQUIPMENT TO BE INSTALLED IS MANUFACTURED BY CARRIER, USE THEIR TECHNICAL EVALUATION REPORT, AS ENGINEERED FOR TIE DOWN PROCEDURES.
- IF EQUIPMENT TO BE INSTALLED IS MANUFACTURED BY RHEEM, USE THEIR NOA FOR TIE DOWN PROCEDURES.
- FOR UNITS REQUIRED TIE DOWN BOLTS LARGER THAN 1/4 Ø. RAIL ① SHALL NOT BE USED. SPECIAL ENGINEERING WILL BE APPLICABLE IN THAT CASE.
- ANY OTHER CASE OF TIE DOWN NOT ADDRESSED HERE SHALL BE MADE THRU SPECIAL ENGINEERING, BASED ON THE EQUIPMENT MANUFACTURE'S TIE DOWN SPECS .

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)
 ALUMINUM STANDS FOR ROOF TOP EQUIPMENT
 F&L ALUMINUM PARTS, INC.
 2087 N. POWERLINE RD, SUITE #1
 POMPANO BEACH, FL 33069

DRAWN BY: W.H.
 DATE: 6/26/2026
 26-082
 DRAWING No
 SHEET 6 OF 10

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 TILTECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 38th Ave., Pompano Beach, FL 33069
 Phone: (954) 787-1331 Fax: (954) 787-1331
 e-mail: tilteco@col.com
 CA-0006719
 WALTER A. TILLIT JR., P.E.
 FLORIDA Lic. # 44167

TILLIT JR.
 TILTECO
 44167
 STATE OF FLORIDA
 PROFESSIONAL SEAL/SIGNATURE/DATE

ASD DESIGN LATERAL (WL) & UPLIFT (WU) PRESSURE RATING (psf) SCHEDULE GIVEN A STAND WITH STAND'S DEPTH (DS), TOTAL EQUIPMENT UNIT FRONT AREA (AF), EQUIPMENT UNIT HEIGHT (HU), STAND HEIGHT (HS) AND NUMBER OF REQUIRED FRAMES (N)

DS ≥20" MAX UP TO 36"		AF MAX (IN ²)	HU MAX (IN)	HS MAX (IN)	N = 2		N = 3		N = 4		N = 5		N = 6		N = 7	
					WL	WU	WL	WU	WL	WU	WL	WU	WL	WU	WL	WU
576	24	18	200	158	200	158	200	158	200	158	200	158	200	158	200	158
		24	185.5	146.4	200	158	200	158	200	158	200	158	200	158	200	158
		30	148.4	117.1	200	158	200	158	200	158	200	158	200	158	200	158
864	28	18	149.4	117.9	170.7	134.7	200	158	200	158	200	158	200	158	200	158
		24	123.6	97.6	170.7	134.7	200	158	200	158	200	158	200	158	200	158
		30	98.9	78.1	148.4	117.1	197.8	156.2	200	158	200	158	200	158	200	158
1152	30	18	114.8	90.7	134.5	106.2	193.5	152.8	200	158	200	158	200	158	200	158
		24	92.7	73.2	134.5	106.2	185.5	146.4	200	158	200	158	200	158	200	158
		30	74.2	58.6	111.3	87.9	148.4	117.1	185.5	146.4	200	158	200	158	200	158
1440	32	18	91.9	72.5	107.6	85.0	154.8	122.2	201.4	159.0	200	158	200	158	200	158
		24	74.2	58.6	107.6	85.0	148.4	117.1	185.5	146.4	200	158	200	158	200	158
		30	59.3	46.9	89.0	70.3	118.7	93.7	148.4	117.1	178.0	140.6	200	158	200	158
1728	32	18	76.6	60.5	89.7	70.8	129.0	101.9	167.9	132.5	206.5	163.0	200	158	200	158
		24	61.8	48.8	89.7	70.8	123.6	97.6	154.5	122.0	185.5	146.4	200	158	200	158
		30	49.5	39.0	74.2	58.6	98.1	78.1	123.6	97.6	148.6	117.1	173.1	136.7	200	158
2304	32	18	57.4	45.3	67.3	53.1	96.8	76.4	125.9	99.4	154.9	122.3	183.8	145.1	200	158
		24	46.4	36.6	67.3	53.1	92.7	73.2	115.9	91.5	139.1	109.8	162.3	128.1	200	158
		30			55.6	43.9	74.2	58.6	92.7	73.2	111.3	87.9	129.8	102.5	200	158
2880	32	18	45.9	36.3	53.8	42.5	77.4	61.4	100.7	79.5	123.9	97.8	147.0	116.1	200	158
		24			53.8	42.5	74.2	58.6	92.7	73.2	111.3	87.9	129.8	102.5	200	158
		30			44.5	35.1	59.3	46.9	74.2	58.6	89.0	70.3	103.9	82.0	200	158
3600	32	18			43.1	34.0	61.9	48.9	80.6	63.6	99.1	78.3	117.6	92.9	200	158
		24			43.1	34.0	59.3	46.9	74.2	58.6	89.0	70.3	103.9	82.0	200	158
		30					47.5	37.5	59.3	46.9	71.2	56.2	83.1	65.6	200	158
4320	32	18					51.6	40.7	67.2	53.0	82.6	65.2	98.0	77.4	200	158
		24					49.5	39.0	61.8	48.8	74.2	58.6	86.5	68.3	200	158
		30							49.5	39.0	59.3	49.9	69.2	54.7	200	158
5184	32	18					43.0	34.0	56.0	44.2	68.8	54.4	81.7	64.5	200	158
		24							51.5	40.7	61.8	48.8	72.1	56.9	200	158
		30									49.5	39.0	57.7	45.6	200	158
5760	32	18							50.4	39.8	62.0	48.9	73.5	58.0	200	158
		24							46.4	36.6	55.6	43.9	64.9	51.2	200	158
		30									44.5	35.1	51.9	41.0	200	158

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

ALUMINUM STANDS FOR ROOF
TOP EQUIPMENT

F&L ALUMINUM PARTS, INC.

2087 N. POWERLINE RD. SUITE #1
POMPANO BEACH, FL 33069

REV. No. 1

DESCRIPTION OLD 13-000

DATE 4/7/78

REV. No.

DESCRIPTION

DATE

DRAWN BY: W.H.

6/26/2026 DATE

26-082 DRAWING No

SHEET 7 OF 10

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 W. 35th St.
Dade City, FL 33616
Phone : (813) 971-1330 Fax : (813) 971-1531
e-mail: tilteco@aol.com
CA-000671g
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

WALTER A. TILLIT JR.
LICENSE
No. 44167

STATE OF FLORIDA

PROFESSIONAL SEAL/SIGNATURE/DATE

ASD DESIGN LATERAL (WL) & UPLIFT (WU) PRESSURE RATING (psf) SCHEDULE GIVEN A STAND WITH STAND'S DEPTH (DS), TOTAL EQUIPMENT UNIT FRONT AREA (AF), EQUIPMENT UNIT HEIGHT (HU), STAND HEIGHT (HS) AND NUMBER OF REQUIRED FRAMES (N)

DS ≥20" MAX UP TO 36"		HS MAX (IN)	N = 2		N = 3		N = 4		N = 5		N = 6		N = 7	
			AF MAX (IN ²)		HU MAX (IN)		WL		WU		WL		WU	
1440	36	18	92.6	73.1	111.0	87.6	158.6	125.2	200	158	200	158	200	158
		24	74.2	58.6	111.0	87.6	148.4	117.1	185.5	146.4	200	158	200	158
		30	59.3	46.9	89.0	70.3	118.7	93.7	148.4	117.1	178.0	140.6	200	158
1728	36	18	77.1	60.9	92.5	73.0	132.1	104.3	171.3	135.3	210.3	166.0	200	158
		24	61.8	48.8	92.5	73.0	123.6	97.6	154.5	122.0	185.5	146.4	200	158
		30	49.5	39.0	74.2	58.6	98.9	78.1	123.6	97.6	148.4	117.1	173.1	136.7
2304	36	18	57.9	45.7	69.4	54.8	99.1	78.3	128.5	101.4	157.7	124.5	186.8	147.5
		24	46.4	36.6	69.4	54.8	92.7	73.2	115.9	91.5	139.1	109.8	162.3	128.1
		30			55.6	43.9	74.2	58.6	92.7	73.2	111.3	87.9	129.8	102.5
2880	36	18			55.5	43.8	79.3	62.6	102.8	81.2	126.2	99.6	149.5	118.0
		24			55.5	43.8	74.2	58.6	92.7	73.2	111.3	87.9	129.8	102.5
		30			44.5	35.1	59.3	46.9	74.2	58.6	89.0	70.3	103.9	82.0
3600	36	18			44.4	35.0	63.4	50.1	82.2	64.9	100.9	79.7	119.6	94.4
		24			44.4	35.0	59.3	46.9	74.2	58.6	89.0	70.3	103.9	82.0
		30					47.5	37.5	59.3	46.9	71.2	56.2	83.1	65.6
4320	36	18					52.9	41.7	68.5	54.1	84.1	66.4	99.7	78.7
		24					49.5	39.0	61.8	48.8	74.2	58.6	86.5	68.3
		30							49.5	39.0	59.3	46.9	69.2	54.7
5184	36	18					44.1	34.8	57.1	45.1	70.1	55.3	83.0	65.6
		24					41.2	32.5	51.5	40.7	61.8	48.8	72.1	56.9
		30							41.2	32.5	49.5	39.0	57.7	45.6
5760	36	18							51.4	40.6	63.1	49.8	74.7	59.0
		24							46.4	36.6	55.6	44.0	64.9	51.2
		30									44.5	35.1	51.9	41.0
6480	36	18							45.7	36.1	56.1	44.3	66.4	52.5
		24									49.5	39.0	57.7	45.6
		30											46.2	36.4
7700	36	18									47.2	37.3	55.9	44.1
		24									41.6	32.9	48.6	38.3
		30												

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

ALUMINUM STANDS FOR ROOF TOP EQUIPMENT

F&L ALUMINUM PARTS, INC.
2087 N. POWERLINE RD. SUITE #1
POMPANO BEACH, FL 33069

REV. No. 1
DESCRIPTION OLD 23-080
DATE 4/21/24
REV. No. 2
DESCRIPTION
DATE

DRAWN BY: W.H.
DATE 6/26/2026
26-082
DRAWING No.
SHEET 8 OF 10

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6555 NW 36th St., Ste. 100, Virginia Beach, VA 23166
Phone: 1-800-331-3339
e-mail: tilteco@aol.com
CA-0008719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

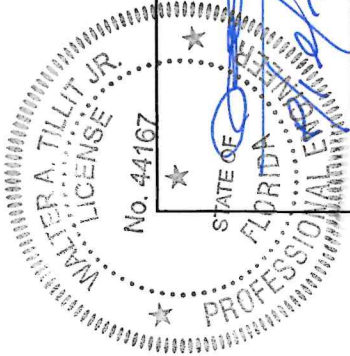
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE



ASD DESIGN LATERAL (WL) & UPLIFT (WU) PRESSURE RATING (psf) SCHEDULE GIVEN A STAND WITH STAND'S DEPTH (DS), TOTAL EQUIPMENT UNIT FRONT AREA (AF), EQUIPMENT UNIT HEIGHT (HU), STAND HEIGHT (HS) AND NUMBER OF REQUIRED FRAMES (N)

DS ≥20"
MAX
UP TO 36"

AF MAX (IN ²)	HU MAX (IN)	HS MAX (IN)	N = 2		N = 3		N = 4		N = 5		N = 6		N = 7	
			WL	WU	WL	WU	WL	WU	WL	WU	WL	WU	WL	WU
1440	42	18	91.5	72.3	113.2	89.4	160.3	126.6	200	158	200	158	200	158
		24	74.2	58.6	111.3	87.9	148.4	117.1	185.5	146.4	200	158	200	158
		30	59.3	46.9	89.0	70.3	118.7	93.7	148.4	117.1	178.0	140.6	200	158
1728	42	18	76.3	60.2	94.3	74.5	133.6	105.5	172.4	136.1	200	158	200	158
		24	61.8	48.8	92.7	73.2	123.6	97.6	154.5	122.0	185.5	146.4	200	158
		30	49.5	39.0	74.2	58.6	98.9	78.1	123.6	97.6	148.4	117.1	173.1	136.7
2304	42	18	57.2	45.2	70.8	55.9	100.2	79.1	129.2	102.1	158.2	124.9	187.0	147.6
		24	46.4	36.6	69.5	54.9	92.7	73.2	115.9	91.5	139.1	109.8	162.3	128.1
		30			55.6	43.9	74.2	58.6	92.7	73.2	111.3	87.9	129.8	102.5
2880	42	18	45.8	36.1	56.6	44.7	80.2	63.3	103.4	81.7	126.5	99.9	149.6	118.1
		24			55.6	43.9	74.2	58.6	92.7	73.2	111.3	87.9	129.8	102.5
		30			44.5	35.1	59.3	46.9	74.2	58.6	89.0	70.3	103.9	82.0
3600	42	18			45.3	35.8	64.1	50.6	82.7	65.3	101.2	79.9	119.7	94.5
		24			44.5	35.1	59.3	46.9	74.2	58.6	89.0	70.3	103.9	82.0
		30					47.5	37.5	59.3	46.9	71.2	56.2	83.1	65.6
4320	42	18					53.4	42.2	68.9	54.4	84.4	66.6	99.7	78.7
		24					49.5	39.0	61.8	48.8	74.2	58.6	86.5	68.3
		30							49.5	39.0	59.3	46.9	69.2	54.7
5184	42	18					44.5	35.2	57.5	45.4	70.3	55.5	83.1	65.6
		24					41.2	32.5	51.5	40.7	61.8	48.8	72.1	56.9
		30							41.2	32.5	49.5	39.0	57.7	45.6
5760	42	18							51.7	40.8	63.3	50.0	74.8	59.1
		24							46.4	36.6	55.6	43.9	64.9	51.2
		30									44.5	35.1	51.9	41.0
6480	42	18							46.0	36.3	56.2	44.4	66.5	52.5
		24							41.2	32.5	49.5	39.0	57.7	45.6
		30											46.2	36.4
7700	42	18									47.3	37.4	56.0	44.2
		24									41.6	32.9	48.6	38.3
		30												
7920	42	18											54.4	42.9
		24											47.2	37.3
		30												



FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)	
ALUMINUM STANDS FOR ROOF TOP EQUIPMENT	DRAWN BY: W.H.
F&L ALUMINUM PARTS, INC. 2087 N. POWERLINE RD. SUITE #1 POMPANO BEACH, FL 33069	6/26/2026 DATE
REV. No. 1	DESCRIPTION
1	26-082
2	DRAWING No
3	SHEET 9 OF 10

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, Virginia Gardens, FL 33166
Phone: (305) 941-1531
E-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

P.E. SEAL/SIGNATURE/DATE

ASD DESIGN LATERAL (WL) & UPLIFT (WU) PRESSURE RATING (psf) SCHEDULE GIVEN A STAND WITH STAND'S DEPTH (DS), TOTAL EQUIPMENT UNIT FRONT AREA (AF), EQUIPMENT UNIT HEIGHT (HU), STAND HEIGHT (HS) AND NUMBER OF REQUIRED FRAMES (N)

[illegible]

MALE A. TILLIT JR
LICENSE
NO. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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TILTECO INC.

TILTUT TESTING & ENGINEERING COMPANY
3355 N.W. 36th, St., Ste. 305, VIRGINIA GARDENS, FL 31166
Phone : (305)871-1530 , Fax : (305)871-1531
e-mail: tilteco@ttil.com

CA-0006719
WALTER A. TILTUT JR. P.E.

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)				
ALUMINUM STANDS FOR ROOF TOP EQUIPMENT				
F&L ALUMINUM PARTS, INC. 2087 N. POWERLINE RD. SUITE #1 POMPANO BEACH, FL. 33069				
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION
1	OLD 13-040	4/27/28	-	-
-	-	-	-	-
DRAWN BY: W.H.			DATE 6/26/2026	
DRAWING No 26-082			SHEET 10 OF 10	