



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Miami Tech, Inc.**  
3611 NW 74 Street  
Miami, FL 33147

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Aluminum A/C Stand

**APPROVAL DOCUMENT:** Drawing No. **15-2476**, titled "Aluminum A/C Stand HVHZ Compliant", sheets 1 through 10 of 10, dated 01/10/2007, and last revised on 11/01/2017, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number & expiration date by Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: None.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA# **16-0601.01** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S. Z.  
06/16/2018

NOA No. 17-1218.02  
Expiration Date: January 15, 2024  
Approval Date: June 21, 2018  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **15-2476**, titled "Aluminum A/C Stand HVHZ Compliant", sheets 1 through 10 of 10, dated 01/10/2007, and last revised on 11/01/2017, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

**B. TESTS**

1. Load Testing of Aluminum A/C Stand Post to Welded Baseplate, prepared by QC Metallurgical, Inc., QCM Job No. 15KM-958, dated 11/13/15, signed by Jerry Iacofano  
(*Voluntary Testing*)  
(*Submitted under NOA No. 15-0902.05*)

**C. CALCULATIONS**

1. Engineering design calculations, prepared by Engineering Express, date 11/21/17 and last revised on 04/25/18, signed and sealed by Frank L. Bernardo, P.E.
2. Engineering design calculations, prepared by Engineering Express, dated 05/25/16 and last revised on 06/23/16, signed and sealed by Frank L. Bernardo, P.E. (*Submitted under NOA No. 16-0601.01*)

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letters dated 11/28/2017 indicating compliance to FBC 2017 (6<sup>th</sup> Edition) prepared by Engineering Express signed & sealed by Frank L. Bernardo, P.E.

**G. OTHER**

1. Notice of Acceptance No. **16-0601.01**, issued to Miami Tech, Inc., for their **Aluminum A/C Stand**, approved on 07/14/2016 and expiring on 01/15/2019.



Sifang Zhao, P.E.

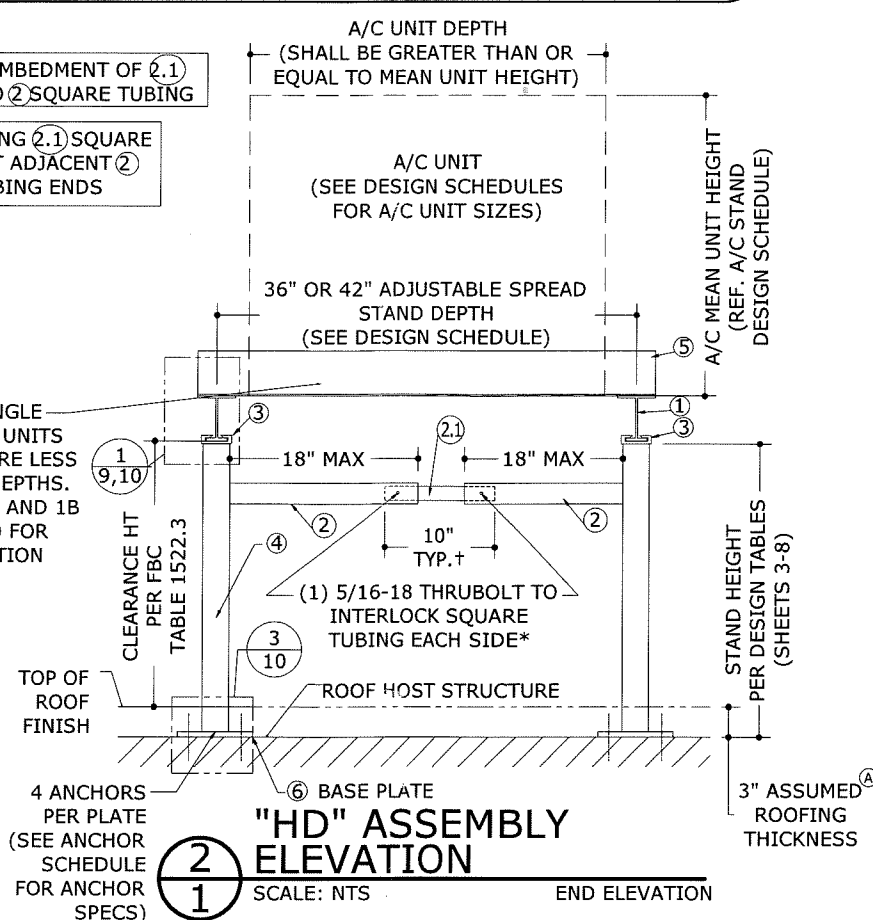
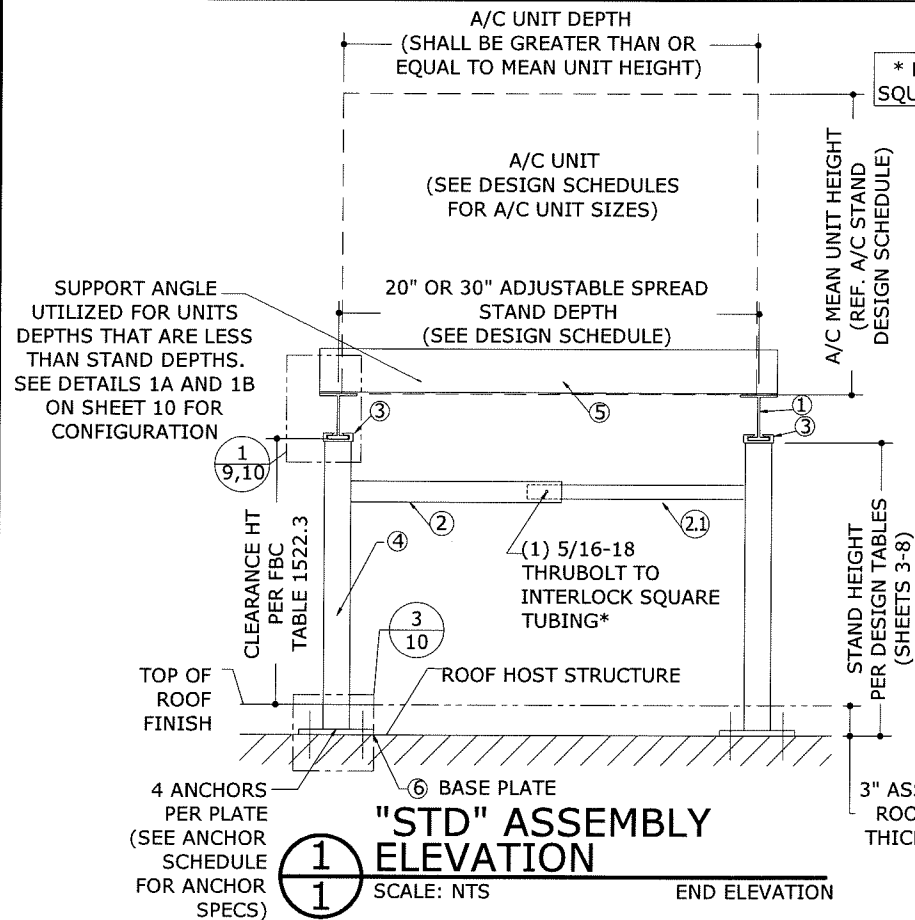
Product Control Examiner

NOA No. 17-1218.02

Expiration Date: January 15, 2024

Approval Date: June 21, 2018

# ALUMINUM STANDS FOR MECHANICAL UNITS



## MAXIMUM ALLOWABLE DESIGN PRESSURES:

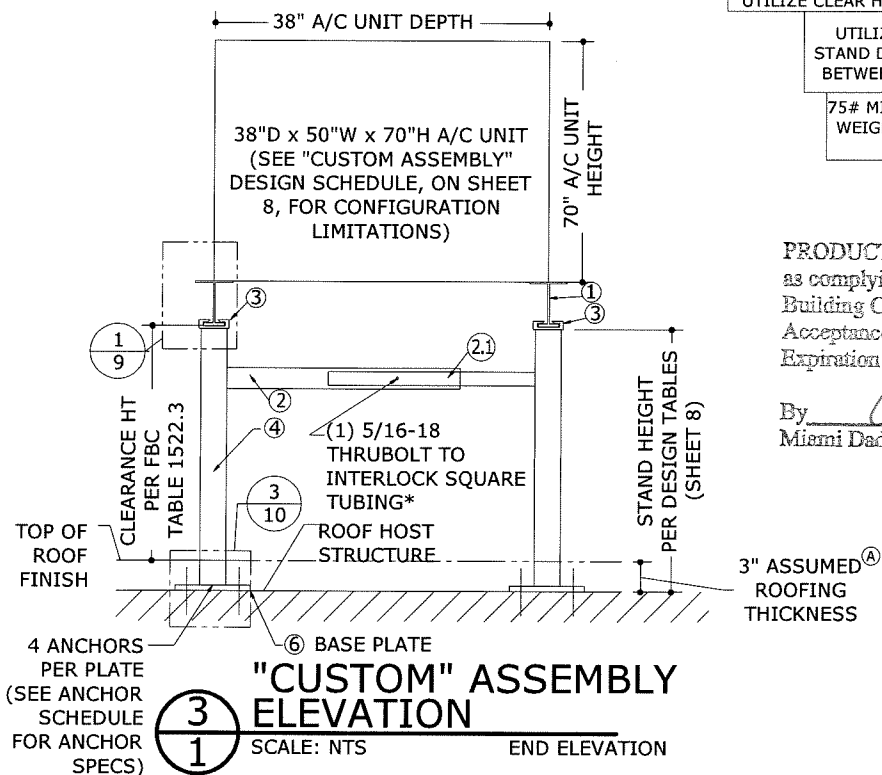
AS NOTED IN DESIGN SCHEDULES

## DESIGN NOTES:

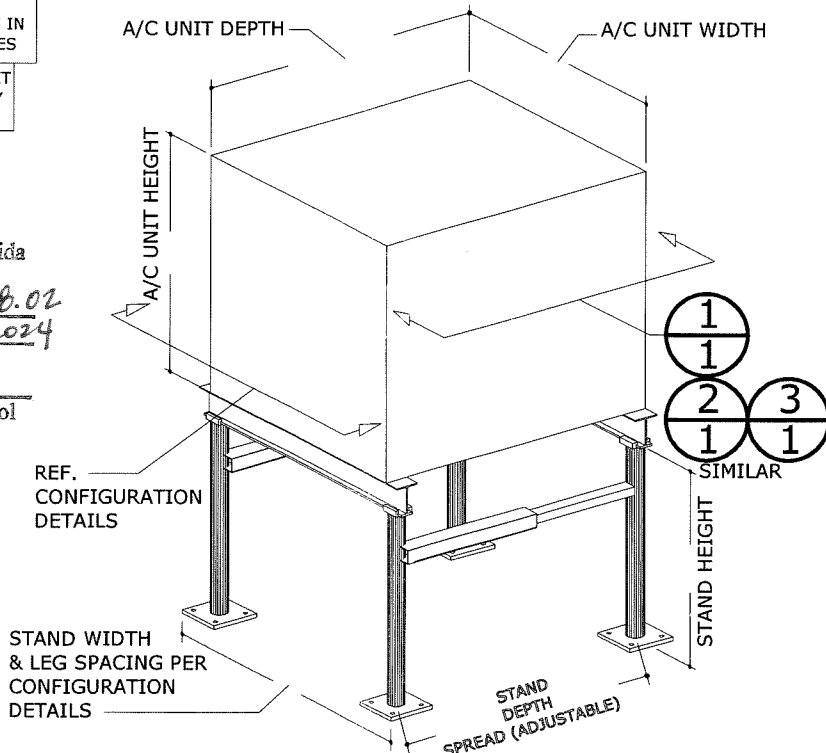
DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED SEPARATELY ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE USING ASD METHODOLOGY. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-10 AND CHAPTER 16 OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017) SHALL BE LESS THAN OR EQUAL TO THE LATERAL AND UPLIFT DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

## GENERAL NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017).
- MAXIMUM DIMENSIONS AND WEIGHT OF A/C UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN, MINIMUM 75LB OR MAXIMUM AS LISTED HEREIN.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
- REACTION FORCES LISTED FOR USE WITH HOST STRUCTURE VERIFICATION ARE CALCULATED USING ASD METHODOLOGY. DESIGN PROFESSIONAL OF RECORD TO VERIFY APPLICABILITY AND/OR ADDITIONAL FACTORS FOR USE WITH HOST STRUCTURE VERIFICATION.
- ALL FASTENERS TO BE #10 OR GREATER SAE GRADE 5, UNLESS NOTED OTHERWISE, CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH J.3.3, SPECIFICATIONS FOR ALUM. STRUCTURES-SECTION 1, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES. PROVIDE (5) PITCHES MIN PAST THREAD PLANE.
- ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6061-T6 OR 6005-T5.
- ALL 22GA DEFORMED STEEL STRAPS USED FOR UNIT TIE-DOWNS SHALL BE ASTM A36 MIN. STEEL. FABRICATION OF STEEL STRAPS SHALL BE BY STRAP MANUFACTURER ONLY.
- ALL EXISTING CONCRETE SUBSTRATE SHALL HAVE MINIMUM  $f_c$  COMPRESSIVE STRENGTH OF 3000 PSI AS VERIFIED BY OTHERS.
- ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH FBC SECTION 2003.8.1.4 WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL, TABLE J.2.1. SUGGESTED WELD FILLER: 5356 ELECTRODES. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN FBC SECTION 2003.2 AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS  $\frac{1}{8}$ " THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 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.
- 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 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.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- AC STANDS SHALL BE LABELED PER MIAMI-DADE REQUIREMENTS FOR NON-MANDATORY PRODUCT APPROVALS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 17-1218.02  
Expiration Date 01/15/2024  
By [Signature]  
Miami Dade Product Control



FRANK L. BENNARD, P.E.  
# PE0046549

04/25/2018

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CERT OF AUTH #9885

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ALUMINUM A/C STAND  
HVHZ COMPLAINT

| REMARKS               | DATE     | DRWN | CHKD |
|-----------------------|----------|------|------|
| INITIALS              | 01/10/07 | KL   | CL   |
| REV. TELESCOPIC BOLTS | 05/03/07 | KL   | CL   |
| UPDATE PER 07 FBC     | 09/30/08 | TSB  | CL   |
| UPDATE PER 10 FBC     | 05/10/12 | CSL  | TSB  |
| REV. PER COMMENTS     | 08/16/12 | CSL  | TSB  |
| FBC UPDATE            | 07/07/15 | RWN  | CSL  |
| REV PER MD COMMENTS   | 05/07/16 | RWN  | FLB  |
| REV. 2017 FBC         | 11/01/17 | RWN  | FLB  |

15-2476

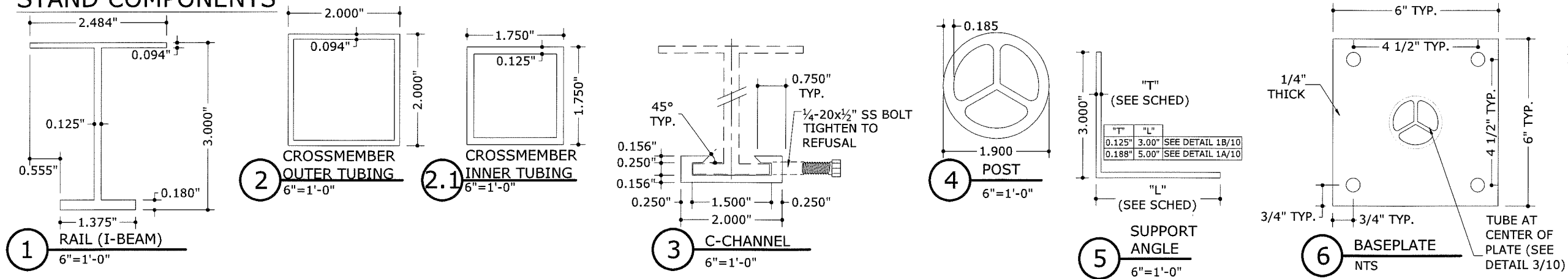
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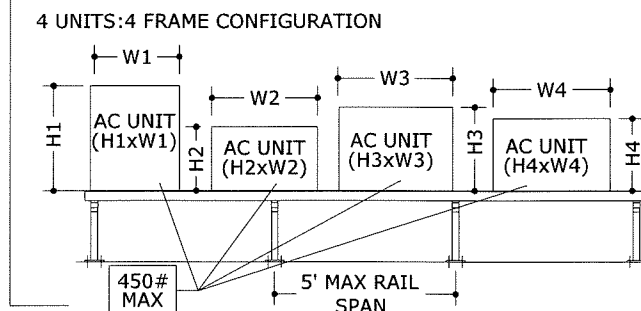
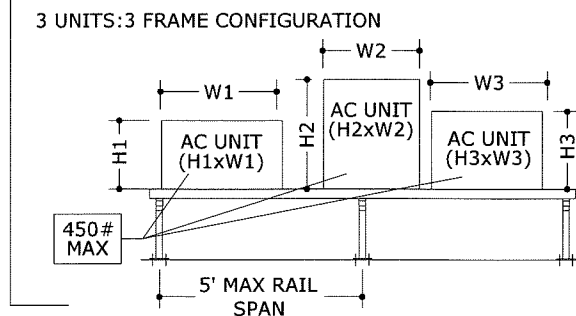
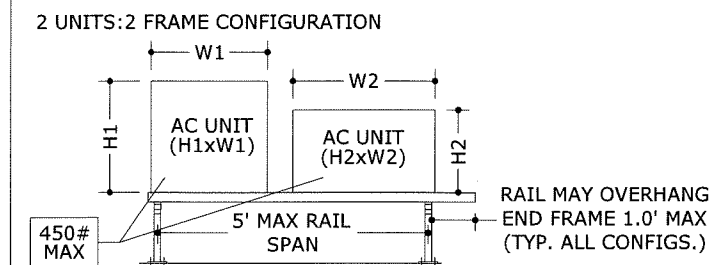
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## STAND COMPONENTS

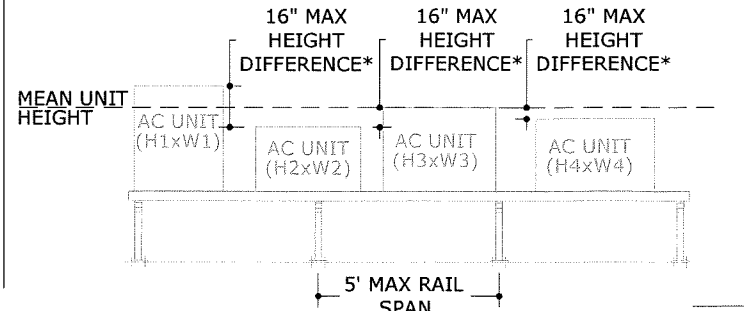
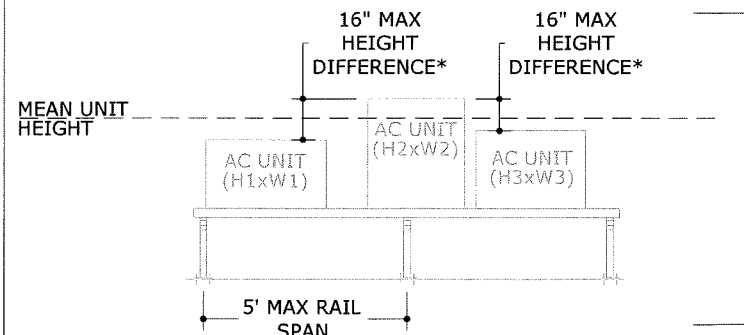
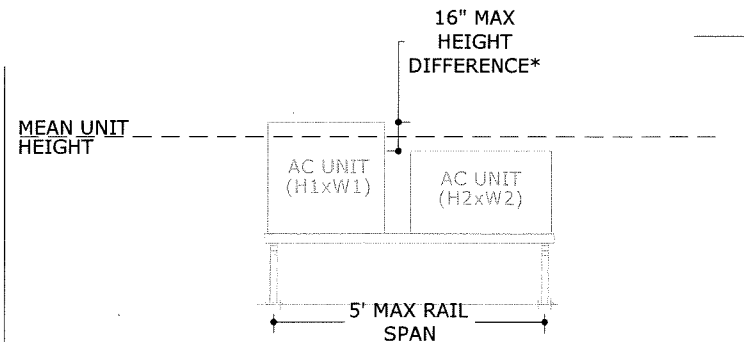


## MEAN UNIT HEIGHT & MAX FACE AREA CALCULATION DIRECTIVE: THIS DIRECTIVE SHALL BE USED TO CALCULATE THE MEAN UNIT HEIGHT & MAXIMUM FACE AREA OF ANY MULTIPLE UNIT CONFIGURATION.

### EXAMPLE CONFIGURATIONS:



NOTE: THE NUMBER OF UNITS PER STAND CONFIGURATION MAY BE UNLIMITED PROVIDED THAT MULTIPLE UNITS CONFORM TO THE MEAN UNIT HEIGHT & MAXIMUM UNIT FACE AREA RESTRICTIONS UTILIZED IN THE DESIGN SCHEDULES.



\*MAXIMUM ALLOWABLE HEIGHT DIFFERENCE BETWEEN ANY UNITS IN A MULTIPLE UNIT CONFIGURATION IS RESTRICTED TO 16" MAX.

### FORMULAS USED FOR DETERMINING MEAN UNIT HEIGHT & MAXIMUM UNIT FACE AREA:

#### 1. CALCULATE THE MEAN UNIT HEIGHT BY THE FOLLOWING EQUATION:

- TWO UNITS:  $\frac{H1+H2}{2}$
- THREE UNITS:  $\frac{H1+H2+H3}{3}$
- FOUR UNITS:  $\frac{H1+H2+H3+H4}{4}$
- "n" UNITS:  $\frac{H1+H2+H3+...+Hn}{n}$

#### 2. CALCULATE THE MAXIMUM UNIT FACE AREA BY THE FOLLOWING EQUATION:

- TWO UNITS:  $(H1xW1)+(H2xW2)$
- THREE UNITS:  $(H1xW1)+(H2xW2)+(H3xW3)$
- FOUR UNITS:  $(H1xW1)+(H2xW2)+(H3xW3)+(H4xW4)$
- "n" UNITS:  $(H1xW1)+...+(HnxWn)$

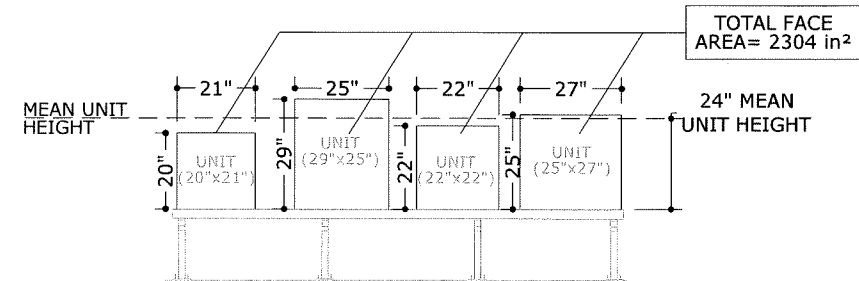
#### EXAMPLE SCENARIO:

- CONSIDER A FOUR UNIT CONFIGURATION WITH THE DIMENSIONS AS SHOWN BELOW.
- CALCULATE THE MEAN UNIT HEIGHT.

$$\text{FOUR UNITS: } \frac{H1+H2+H3+H4}{4} = \frac{20'+29'+22'+25'}{4} = 24" \text{ MEAN UNIT HEIGHT}$$

#### 3. CALCULATE THE MAXIMUM FACE AREA.

$$\text{FOUR UNITS: } (H1xW1)+(H2xW2)+(H3xW3)+(H4xW4) = (20'x21')+(29'x25')+(22'x22')+(25'x27') = 2304 \text{ in}^2$$



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ALUMINUM A/C STAND  
HVHZ COMPLAINT

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| 01/10/07 | KL   | CL   | INIT ISSUE            |
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04/25/2018

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"STD" STAND DESIGN SCHEDULES & STAND DIRECTIVE EXAMPLE

20" STAND DEPTH MINIMUM: MAX FACE AREA (3600in<sup>2</sup> - 12600in<sup>2</sup>), FRAME QUANTITY (5-8 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA      | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|-----------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                       | MAX FACE AREA : 8 FRAMES      |                            |                               |                            | MAX FACE AREA : 7 FRAMES      |                            |                               |                            | MAX FACE AREA : 6 FRAMES      |                            |                               |                            | MAX FACE AREA : 5 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                       | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            |                         |                        |                         |                          |
|                          |                               |                       | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 3600 in <sup>2</sup>  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 178.7 PSF                     | 141.1 PSF                  | 166.0 PSF                     | 131.1 PSF                  | 148.9 PSF                     | 117.5 PSF                  | 138.5 PSF                     | 109.3 PSF                  | 360.40 LB-FT            | 409.6 LB               | 1691.0 LB               | 1374.4 LB                |
| 24 "                     |                               |                       | 184.6 PSF                     | 145.7 PSF                  | 184.6 PSF                     | 145.7 PSF                  | 161.5 PSF                     | 127.5 PSF                  | 161.5 PSF                     | 127.5 PSF                  | 138.4 PSF                     | 109.3 PSF                  | 138.4 PSF                     | 109.3 PSF                  | 115.3 PSF                     | 91.1 PSF                   | 115.3 PSF                     | 91.1 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1500.9 LB               | 1285.6 LB                |
| 30 "                     |                               |                       | 150.9 PSF                     | 119.1 PSF                  | 150.9 PSF                     | 119.1 PSF                  | 132.0 PSF                     | 104.2 PSF                  | 132.0 PSF                     | 104.2 PSF                  | 113.1 PSF                     | 89.3 PSF                   | 113.1 PSF                     | 89.3 PSF                   | 94.3 PSF                      | 74.4 PSF                   | 94.3 PSF                      | 74.4 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1379.9 LB               | 1231.1 LB                |
| 18 "                     | 40 "                          | 6000 in <sup>2</sup>  | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 98.1 PSF                      | 77.5 PSF                   | 91.4 PSF                      | 72.1 PSF                   | 81.8 PSF                      | 64.6 PSF                   | 360.40 LB-FT            | 409.6 LB               | 1882.5 LB               | 1588.8 LB                |
| 24 "                     |                               |                       | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.1 PSF                      | 78.3 PSF                   | 99.1 PSF                      | 78.3 PSF                   | 85.0 PSF                      | 67.1 PSF                   | 85.0 PSF                      | 67.1 PSF                   | 70.8 PSF                      | 55.9 PSF                   | 70.8 PSF                      | 55.9 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1650.2 LB               | 1451.6 LB                |
| 30 "                     |                               |                       | 92.6 PSF                      | 73.1 PSF                   | 92.6 PSF                      | 73.1 PSF                   | 81.0 PSF                      | 64.0 PSF                   | 81.0 PSF                      | 64.0 PSF                   | 69.4 PSF                      | 54.8 PSF                   | 69.4 PSF                      | 54.8 PSF                   | 57.9 PSF                      | 45.7 PSF                   | 57.9 PSF                      | 45.7 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1503.5 LB               | 1366.8 LB                |
| 18 "                     | 50 "                          | 9000 in <sup>2</sup>  | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (74.6) PSF                 | 58.8 PSF                   | 58 (74.1) PSF                 | 58.5 PSF                   | 58 (63.9) PSF                 | 50.5 PSF                   | 58 (61.8) PSF                 | 48.8 PSF                   | 53.3 PSF                      | 42.1 PSF                   | 360.40 LB-FT            | 409.6 LB               | 2085.1 LB               | 1799.5 LB                |
| 24 "                     |                               |                       | 58 (76.6) PSF                 | 60.5 PSF                   | 58 (74.3) PSF                 | 58.6 PSF                   | 58 (67) PSF                   | 52.9 PSF                   | 58 (65) PSF                   | 51.3 PSF                   | 57.4 PSF                      | 45.3 PSF                   | 55.7 PSF                      | 44.0 PSF                   | 47.9 PSF                      | 37.8 PSF                   | 46.5 PSF                      | 36.7 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1806.2 LB               | 1614.9 LB                |
| 30 "                     |                               |                       | 58 (62.6) PSF                 | 49.4 PSF                   | 58 (62.6) PSF                 | 49.4 PSF                   | 54.8 PSF                      | 43.2 PSF                   | 54.8 PSF                      | 43.2 PSF                   | 46.9 PSF                      | 37.0 PSF                   | 46.9 PSF                      | 37.0 PSF                   | 39.1 PSF                      | 30.9 PSF                   | 39.1 PSF                      | 30.9 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1629.4 LB               | 1500.3 LB                |
| 18 "                     | 60 "                          | 12600 in <sup>2</sup> | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (51.8) PSF               | 40.9 PSF                   | 36.8 (53.5) PSF               | 42.2 PSF                   | 36.8 (44.5) PSF               | 35.1 PSF                   | 36.8 (44.5) PSF               | 35.1 PSF                   | 36.8 (37.1) PSF               | 29.3 PSF                   | 360.40 LB-FT            | 409.6 LB               | 2285.8 LB               | 2008.4 LB                |
| 24 "                     |                               |                       | 36.8 (55.2) PSF               | 43.6 PSF                   | 36.8 (51.9) PSF               | 40.9 PSF                   | 36.8 (48.3) PSF               | 38.1 PSF                   | 36.8 (45.4) PSF               | 35.8 PSF                   | 36.8 (41.4) PSF               | 32.7 PSF                   | 36.8 (38.9) PSF               | 30.7 PSF                   | 34.5 PSF                      | 27.2 PSF                   | 32.5 PSF                      | 25.6 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1961.7 LB               | 1776.8 LB                |
| 30 "                     |                               |                       | 36.8 (45.1) PSF               | 35.6 PSF                   | 36.8 (45.1) PSF               | 35.6 PSF                   | 36.8 (39.5) PSF               | 31.2 PSF                   | 36.8 (39.5) PSF               | 31.2 PSF                   | 33.8 PSF                      | 26.7 PSF                   | 33.8 PSF                      | 26.7 PSF                   | 28.2 PSF                      | 22.2 PSF                   | 28.2 PSF                      | 22.2 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1756.5 LB               | 1632.5 LB                |

20" STAND DEPTH MINIMUM: MAX FACE AREA (2880in<sup>2</sup> - 10080in<sup>2</sup>), FRAME QUANTITY (4-7 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA      | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|-----------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                       | MAX FACE AREA : 7 FRAMES      |                            |                               |                            | MAX FACE AREA : 6 FRAMES      |                            |                               |                            | MAX FACE AREA : 5 FRAMES      |                            |                               |                            | MAX FACE AREA : 4 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                       | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            |                         |                        |                         |                          |
|                          |                               |                       | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 2880 in <sup>2</sup>  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 186.1 PSF                     | 146.9 PSF                  | 172.9 PSF                     | 136.5 PSF                  | 148.9 PSF                     | 117.5 PSF                  | 138.5 PSF                     | 109.3 PSF                  | 360.40 LB-FT            | 409.6 LB               | 1691.7 LB               | 1374.4 LB                |
| 24 "                     |                               |                       | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 173.0 PSF                     | 136.6 PSF                  | 173.0 PSF                     | 136.6 PSF                  | 144.2 PSF                     | 113.8 PSF                  | 144.2 PSF                     | 113.8 PSF                  | 115.3 PSF                     | 91.1 PSF                   | 115.3 PSF                     | 91.1 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1500.0 LB               | 1285.6 LB                |
| 30 "                     |                               |                       | 165.0 PSF                     | 130.3 PSF                  | 165.0 PSF                     | 130.3 PSF                  | 141.4 PSF                     | 111.6 PSF                  | 141.4 PSF                     | 111.6 PSF                  | 117.9 PSF                     | 93.0 PSF                   | 117.9 PSF                     | 93.0 PSF                   | 94.3 PSF                      | 74.4 PSF                   | 94.3 PSF                      | 74.4 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1381.1 LB               | 1231.1 LB                |
| 18 "                     | 40 "                          | 4800 in <sup>2</sup>  | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 91.4 PSF                      | 72.1 PSF                   | 81.8 PSF                      | 64.6 PSF                   | 360.40 LB-FT            | 409.6 LB               | 1882.5 LB               | 1588.8 LB                |
| 24 "                     |                               |                       | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 88.5 PSF                      | 69.9 PSF                   | 88.5 PSF                      | 69.9 PSF                   | 70.8 PSF                      | 55.9 PSF                   | 70.8 PSF                      | 55.9 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1648.2 LB               | 1451.6 LB                |
| 30 "                     |                               |                       | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 86.8 PSF                      | 68.5 PSF                   | 86.8 PSF                      | 68.5 PSF                   | 72.3 PSF                      | 57.1 PSF                   | 72.3 PSF                      | 57.1 PSF                   | 57.9 PSF                      | 45.7 PSF                   | 57.9 PSF                      | 45.7 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1502.5 LB               | 1366.8 LB                |
| 18 "                     | 50 "                          | 7200 in <sup>2</sup>  | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (79.9) PSF                 | 63.0 PSF                   | 58 (77.2) PSF                 | 61.0 PSF                   | 58 (66.6) PSF                 | 52.6 PSF                   | 58 (61.8) PSF                 | 48.8 PSF                   | 53.3 PSF                      | 42.1 PSF                   | 360.40 LB-FT            | 409.6 LB               | 2085.8 LB               | 1799.5 LB                |
| 24 "                     |                               |                       | 58 (83.8) PSF                 | 66.1 PSF                   | 58 (81.2) PSF                 | 64.1 PSF                   | 58 (71.8) PSF                 | 56.7 PSF                   | 58 (69.6) PSF                 | 55.0 PSF                   | 58 (59.8) PSF                 | 47.2 PSF                   | 58 (58.1) PSF                 | 45.8 PSF                   | 47.9 PSF                      | 37.8 PSF                   | 46.5 PSF                      | 36.7 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1807.4 LB               | 1614.9 LB                |
| 30 "                     |                               |                       | 58 (68.5) PSF                 | 54.0 PSF                   | 58 (68.5) PSF                 | 54.0 PSF                   | 58 (58.7) PSF                 | 46.3 PSF                   | 58 (58.7) PSF                 | 46.3 PSF                   | 48.9 PSF                      | 38.6 PSF                   | 48.9 PSF                      | 38.6 PSF                   | 39.1 PSF                      | 30.9 PSF                   | 39.1 PSF                      | 30.9 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1630.6 LB               | 1500.3 LB                |
| 18 "                     | 60 "                          | 10080 in <sup>2</sup> | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (55.5) PSF               | 43.8 PSF                   | 36.8 (55.7) PSF               | 43.9 PSF                   | 36.8 (46.3) PSF               | 36.5 PSF                   | 36.8 (44.5) PSF               | 35.1 PSF                   | 36.8 (37.1) PSF               | 29.3 PSF                   | 360.40 LB-FT            | 409.6 LB               | 2286.6 LB               | 2008.4 LB                |
| 24 "                     |                               |                       | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (56.7) PSF               | 44.8 PSF                   | 36.8 (51.8) PSF               | 40.9 PSF                   | 36.8 (48.6) PSF               | 38.4 PSF                   | 36.8 (43.1) PSF               | 34.0 PSF                   | 36.8 (40.6) PSF               | 32.0 PSF                   | 34.5 PSF                      | 27.2 PSF                   | 32.5 PSF                      | 25.6 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1960.8 LB               | 1776.8 LB                |
| 30 "                     |                               |                       | 36.8 (49.4) PSF               | 39.0 PSF                   | 36.8 (49.4) PSF               | 39.0 PSF                   | 36.8 (42.3) PSF               | 33.4 PSF                   | 36.8 (42.3) PSF               | 33.4 PSF                   | 35.2 PSF                      | 27.8 PSF                   | 35.2 PSF                      | 27.8 PSF                   | 28.2 PSF                      | 22.2 PSF                   | 28.2 PSF                      | 22.2 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1757.7 LB               | 1632.5 LB                |

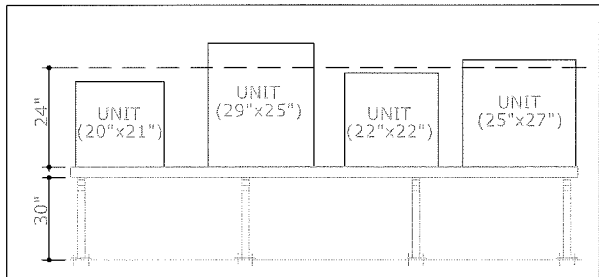
STAND EXAMPLE

(THE FOLLOWING EXAMPLE ILLUSTRATES THE PROCEDURE USED TO DETERMINE THE MAXIMUM ALLOWABLE WIND PRESSURE & UPLIFT FOR ANY GIVEN MECHANICAL UNIT CONFIGURATION THAT CONFORMS TO THE DIMENSION RESTRICTIONS LISTED HEREIN. SEE SHEET 2 FOR MEAN UNIT HEIGHT & MAXIMUM FACE AREA CALCULATION DIRECTIVE. SEE SHEET 2 FOR COMPONENT SCHEDULE. SEE SHEET 9 FOR ANCHOR SCHEDULES.)

MECHANICAL UNIT/STAND CRITERIA:

CONSIDER THE INSTALLATION OF (4) MECHANICAL UNITS, (1)-20" TALL x 24" DEEP x 21" WIDE, (1)-29" TALL x 24" DEEP x 25" WIDE,(1)-22" TALL x 24" DEEP x 22" WIDE, (1)-25" TALL x 27" DEEP x 27" WIDE,[350 LB MAX WEIGHT] INSTALLED WITH THE FOLLOWING CRITERIA:

- NUMBER OF LEG FRAMES= (4) FRAMES
- STAND HEIGHT= 30" HEIGHT
- STAND DEPTH= 20" STAND DEPTH SPREAD
- HOST STRUCTURE TYPE= 3,000 PSI CONCRETE (AS VERIFIED BY OTHERS).



| PROCEDURE: |                                                                           | RESULT:                                                                                                                                                                                                                                                                                                                            |
|------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1          | DETERMINE THE MEAN UNIT HEIGHT FOR THE GIVEN CONFIGURATION                | SEE SHEET 2, CALCULATION DIRECTIVE STEP #1 FOR METHOD OF CALCULATING THE MEAN UNIT HEIGHT. FOR CLARIFICATION, THIS CONFIGURATION HAS BEEN WORKED OUT IN THE EXAMPLE SCENARIO. <b>(MEAN UNIT HEIGHT = 24 in)</b>                                                                                                                    |
| 2          | DETERMINE THE MAXIMUM FACE AREA FOR THE GIVEN CONFIGURATION               | SEE SHEET 2, CALCULATION DIRECTIVE STEP #2 FOR METHOD OF CALCULATING THE MAXIMUM TOTAL UNIT FACE AREA. FOR CLARIFICATION, THIS CONFIGURATION HAS BEEN WORKED OUT IN THE EXAMPLE SCENARIO. <b>(MAXIMUM UNIT FACE AREA = 2304 in<sup>2</sup>)</b>                                                                                    |
| 3          | LOCATE DESIGN SCHEDULE THAT APPLIES TO THE GIVEN CONFIGURATION            | SEE SHEET 3 FOR THE 20" STAND DEPTH WITH A MAXIMUM FACE AREA OF 2304 in <sup>2</sup> .                                                                                                                                                                                                                                             |
| 4          | DETERMINE THE MAXIMUM ALLOWABLE LATERAL & UPLIFT WIND LOADS               | FOR A 2304 in <sup>2</sup> MAX TOTAL UNIT FACE AREA ON A 30" STAND HEIGHT WITH (4) SUPPORTING FRAMES, THE ALLOWABLE WIND LOADS ARE AS FOLLOWS: <ul style="list-style-type: none"><li>ALLOWABLE LATERAL WIND LOAD: <b>94.3 PSF</b></li><li>ALLOWABLE UPLIFT WIND LOAD: <b>74.4 PSF</b> (FROM TABLE ABOVE)</li></ul>                 |
| 5          | INSTALL STAND PER PERMISSIBLE ANCHOR TYPES AND VERIFY HOST STRUCTURE TYPE | UTILIZE ANCHOR TYPES FROM DESIGN SCHEDULE ASSOCIATED WITH THE ALLOWABLE WIND VALUES DETERMINED IN STEP 4. FOR THE TABLE LISTING, <b>ANCHOR TYPES 2 &amp; 3 MAY BE APPLIED</b> . FOR THIS EXAMPLE UTILIZE ANCHOR TYPE 2 FOR CONCRETE HOST STRUCTURE TYPE. INSTALL STANDS PER ANCHOR SCHEDULE AND DETAILS AS ILLUSTRATED ON SHEET 9. |

CONCLUSION:

|   |                                                                                         |                                                                                                                                                                                                                                                                                                                                  |
|---|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | MAXIMUM ALLOWABLE LATERAL DESIGN PRESSURE=<br>MAXIMUM ALLOWABLE UPLIFT DESIGN PRESSURE= | = 94.3 PSF<br>= 74.4 PSF (FROM TABLE ABOVE)                                                                                                                                                                                                                                                                                      |
| 7 | COMPARE TO SITE SPECIFIC DESIGN CONDITIONS                                              | COMPARE VALUES FROM STEP #6 TO THE SEPARATE SITE SPECIFIC REQUIRED DESIGN WIND PRESSURE PROVIDED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT; NOT INCLUDED IN THIS CERTIFICATION. SITE-SPECIFIC PRESSURE REQUIREMENTS SHALL BE LESS THAN OR EQUAL TO THE LATERAL AND UPLIFT DESIGN PRESSURE ALLOWABLE CAPACITY VALUES LISTED. |

DESIGN SCHEDULE NOTES:

- MAXIMUM CALCULATED FACE AREA SHALL BE EQUAL TO OR LESS THAN THE MAXIMUM ALLOWABLE FACE AREA FOR EACH CONFIGURATION.
- REFERENCE ANCHOR SCHEDULE FOR ANCHOR TYPES LISTED HEREIN.
- DESIGN VALUES IN PARENTHESES REPRESENT CAPACITIES WHEN TIE-DOWN STRAPS ARE USED. SEE DETAIL 5 ON SHEET 9 FOR STRAP DETAILS.

TABLE LEGEND:

○ -DENOTES EXAMPLE VALUE FOR USE WITH COVER PAGE DIRECTIVE

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By: [Signature]  
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04/25/2018

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ALUMINUM A/C STAND  
HVHZ COMPLAINT

| REMARKS               | DATE     | DRWN | CHKD |
|-----------------------|----------|------|------|
| INIT ISSUE            | 01/10/07 | KL   | CL   |
| REV. TELESCOPIC BOLTS | 05/03/07 | KL   | CL   |
| UPDATE PER 07 FBC     | 09/30/08 | TSB  | CL   |
| UPDATE PER 10 FBC     | 05/10/12 | CSL  | TSB  |
| REV. PER COMMENTS     | 08/16/12 | CSL  | TSB  |
| FBC UPDATE            | 07/07/15 | RWN  | CSL  |
| REV PER MD COMMENTS   | 05/07/16 | RWN  | FLB  |
| REV- 2017 FBC         | 11/01/17 | RWN  | FLB  |

15-2476

SCALE: NTS -  
PAGE DESCRIPTION:  
COVER SHEET

10

3



"STD" STAND DESIGN SCHEDULE CONTINUED

20" STAND DEPTH MINIMUM: MAX FACE AREA (2160in<sup>2</sup> - 7560in<sup>2</sup>), FRAME QUANTITY (3-6 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA     | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|----------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                      | MAX FACE AREA : 6 FRAMES      |                            |                               |                            | MAX FACE AREA : 5 FRAMES      |                            |                               |                            | MAX FACE AREA : 4 FRAMES      |                            |                               |                            | MAX FACE AREA : 3 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                      | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            |                         |                        |                         |                          |
|                          |                               |                      | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 2160 in <sup>2</sup> | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 360.40 LB-FT            | 409.6 LB               | 1687.2 LB               | 1374.4 LB                |
| 24 "                     |                               |                      | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 360.40 LB-FT            | 317.3 LB               | 1498.1 LB               | 1285.6 LB                |
| 30 "                     |                               |                      | 188.6 PSF                     | 148.9 PSF                  | 188.6 PSF                     | 148.9 PSF                  | 188.6 PSF                     | 148.9 PSF                  | 188.6 PSF                     | 148.9 PSF                  | 188.6 PSF                     | 148.9 PSF                  | 188.6 PSF                     | 148.9 PSF                  | 188.6 PSF                     | 148.9 PSF                  | 188.6 PSF                     | 148.9 PSF                  | 360.40 LB-FT            | 259.3 LB               | 1382.7 LB               | 1231.1 LB                |
| 18 "                     | 40 "                          | 3600 in <sup>2</sup> | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 360.40 LB-FT            | 409.6 LB               | 1882.5 LB               | 1588.8 LB                |
| 24 "                     |                               |                      | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1649.4 LB               | 1451.6 LB                |
| 30 "                     |                               |                      | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1504.0 LB               | 1366.8 LB                |
| 18 "                     | 50 "                          | 5400 in <sup>2</sup> | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 360.40 LB-FT            | 409.6 LB               | 2087.0 LB               | 1799.5 LB                |
| 24 "                     |                               |                      | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1806.8 LB               | 1614.9 LB                |
| 30 "                     |                               |                      | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1632.2 LB               | 1500.3 LB                |
| 18 "                     | 60 "                          | 7560 in <sup>2</sup> | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 360.40 LB-FT            | 409.6 LB               | 2282.1 LB               | 2008.4 LB                |
| 24 "                     |                               |                      | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1958.9 LB               | 1776.8 LB                |
| 30 "                     |                               |                      | 36.8 (56.4) PSF               | 44.5 PSF                   | 36.8 (56.4) PSF               | 44.5 PSF                   | 36.8 (56.4) PSF               | 44.5 PSF                   | 36.8 (56.4) PSF               | 44.5 PSF                   | 36.8 (56.4) PSF               | 44.5 PSF                   | 36.8 (56.4) PSF               | 44.5 PSF                   | 36.8 (56.4) PSF               | 44.5 PSF                   | 36.8 (56.4) PSF               | 44.5 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1759.3 LB               | 1632.5 LB                |

20" STAND DEPTH MINIMUM: MAX FACE AREA (1440in<sup>2</sup> - 5040in<sup>2</sup>), FRAME QUANTITY (2-5 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA     | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|----------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                      | MAX FACE AREA : 5 FRAMES      |                            |                               |                            | MAX FACE AREA : 4 FRAMES      |                            |                               |                            | MAX FACE AREA : 3 FRAMES      |                            |                               |                            | MAX FACE AREA : 2 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                      | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            |                         |                        |                         |                          |
|                          |                               |                      | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 1440 in <sup>2</sup> | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 360.40 LB-FT            | 409.6 LB               | 1687.2 LB               | 1374.4 LB                |
| 24 "                     |                               |                      | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 360.40 LB-FT            | 317.3 LB               | 1500.0 LB               | 1285.6 LB                |
| 30 "                     |                               |                      | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 360.40 LB-FT            | 259.3 LB               | 1382.7 LB               | 1231.1 LB                |
| 18 "                     | 40 "                          | 2400 in <sup>2</sup> | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 360.40 LB-FT            | 409.6 LB               | 1882.5 LB               | 1588.8 LB                |
| 24 "                     |                               |                      | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1643.7 LB               | 1451.6 LB                |
| 30 "                     |                               |                      | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1502.5 LB               | 1366.8 LB                |
| 18 "                     | 50 "                          | 3600 in <sup>2</sup> | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 360.40 LB-FT            | 409.6 LB               | 2081.3 LB               | 1799.5 LB                |
| 24 "                     |                               |                      | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1805.3 LB               | 1614.9 LB                |
| 30 "                     |                               |                      | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1632.2 LB               | 1500.3 LB                |
| 18 "                     | 60 "                          | 5040 in <sup>2</sup> | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 360.40 LB-FT            | 409.6 LB               | 2282.1 LB               | 2008.4 LB                |
| 24 "                     |                               |                      | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 360.40 LB-FT            | 317.3 LB               | 1960.8 LB               | 1776.8 LB                |
| 30 "                     |                               |                      | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1759.3 LB               | 1632.5 LB                |

20" STAND DEPTH MINIMUM: MAX FACE AREA (720in<sup>2</sup> - 2520in<sup>2</sup>), FRAME QUANTITY (2-3 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA     | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|----------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                      | MAX FACE AREA : 3 FRAMES      |                            |                               |                            | MAX FACE AREA : 2 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                      | ANCHOR TYPE: 1 OR 4           |                            | ANCHOR TYPE: 2 OR 3           |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHOR TYPE: 2 OR 3           |                            |                         |                        |                         |                          |
|                          |                               |                      | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 720 in <sup>2</sup>  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 229.80 LB-FT            | 261.1 LB               | 1078.9 LB               | 857.7 LB                 |
| 24 "                     |                               |                      | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 296.60 LB-FT            | 261.1 LB               | 1235.6 LB               | 1014.4 LB                |
| 30 "                     |                               |                      | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 149.9 PSF                  | 189.9 PSF                     | 148.9 PSF                  | 188.6 PSF                     | 148.9 PSF                  | 360.40 LB-FT            | 259.3 LB               | 1382.7 LB               | 1163.6 LB                |
| 18 "                     | 40 "                          | 1200 in <sup>2</sup> | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 195.60 LB-FT            | 222.3 LB               | 1022.6 LB               | 856.4 LB                 |
| 24 "                     |                               |                      | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 252.50 LB-FT            | 222.3 LB               | 1156.0 LB               | 989.8 LB                 |
| 30 "                     |                               |                      | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 99.2 PSF                      | 78.3 PSF                   | 308.90 LB-FT            | 222.3 LB               | 1289.3 LB               | 1123.2 LB                |
| 18 "                     | 50 "                          | 1800 in <sup>2</sup> | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 248.00 LB-FT            | 281.8 LB               | 1436.3 LB               | 1212.8 LB                |
| 24 "                     |                               |                      | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 320.10 LB-FT            | 281.8 LB               | 1605.4 LB               | 1381.9 LB                |
| 30 "                     |                               |                      | 58 (85) PSF                   | 67.1 PSF                   | 58 (85) PSF                   | 67.1 PSF                   | 58 (78.3) PSF                 | 61.8 PSF                   | 58 (78.3) PSF                 | 61.8 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1632.2 LB               | 1432.8 LB                |
| 18 "                     | 60 "                          | 2520 in <sup>2</sup> | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 230.40 LB-FT            | 261.8 LB               | 1462.2 LB               | 1265.3 LB                |
| 24 "                     |                               |                      | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 297.40 LB-FT            | 261.8 LB               | 1619.3 LB               | 1422.4 LB                |
| 30 "                     |                               |                      | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (57) PSF                 | 45.0 PSF                   | 36.8 (56.4) PSF               | 44.5 PSF                   | 36.8 (56.4) PSF               | 44.5 PSF                   | 360.40 LB-FT            | 259.3 LB               | 1759.3 LB               | 1565.0 LB                |

DESIGN SCHEDULE NOTES:

1. MAXIMUM CALCULATED FACE AREA SHALL BE EQUAL TO OR LESS THAN THE MAXIMUM ALLOWABLE FACE AREA FOR EACH CONFIGURATION.
2. REFERENCE ANCHOR SCHEDULE FOR ANCHOR TYPES LISTED HEREIN.

30" STAND DEPTH MINIMUM: MAX FACE AREA (3600in<sup>2</sup> - 1260

"STD" STAND DESIGN SCHEDULE CONTINUED

30" STAND DEPTH MINIMUM: MAX FACE AREA (2880in² - 10080in²), FRAME QUANTITY (4-7 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                  | MAX FACE AREA : 7 FRAMES      |                            |                               |                            | MAX FACE AREA : 6 FRAMES      |                            |                               |                            | MAX FACE AREA : 5 FRAMES      |                            |                               |                            | MAX FACE AREA : 4 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                  | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            |                         |                        |                         |                          |
|                          |                               |                  | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 2880 in²         | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 176.2 PSF                     | 139.1 PSF                  | 176.2 PSF                     | 139.1 PSF                  | 141.0 PSF                     | 111.3 PSF                  | 141.0 PSF                     | 111.3 PSF                  | 360.40 LB-FT            | 387.8 LB               | 1135.4 LB               | 843.1 LB                 |
| 24 "                     |                               |                  | 192.6 PSF                     | 152.0 PSF                  | 192.6 PSF                     | 152.0 PSF                  | 165.1 PSF                     | 130.3 PSF                  | 165.1 PSF                     | 130.3 PSF                  | 137.5 PSF                     | 108.6 PSF                  | 137.5 PSF                     | 108.6 PSF                  | 110.0 PSF                     | 86.8 PSF                   | 110.0 PSF                     | 86.8 PSF                   | 360.40 LB-FT            | 302.6 LB               | 1008.4 LB               | 808.7 LB                 |
| 30 "                     |                               |                  | 158.3 PSF                     | 125.0 PSF                  | 158.3 PSF                     | 125.0 PSF                  | 135.7 PSF                     | 107.1 PSF                  | 135.7 PSF                     | 107.1 PSF                  | 113.1 PSF                     | 89.3 PSF                   | 113.1 PSF                     | 89.3 PSF                   | 90.4 PSF                      | 71.4 PSF                   | 90.4 PSF                      | 71.4 PSF                   | 360.40 LB-FT            | 248.8 LB               | 926.3 LB                | 788.4 LB                 |
| 18 "                     | 40 "                          | 4800 in²         | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 108.2 PSF                     | 85.4 PSF                   | 108.2 PSF                     | 85.4 PSF                   | 86.5 PSF                      | 68.3 PSF                   | 86.5 PSF                      | 68.3 PSF                   | 360.40 LB-FT            | 387.8 LB               | 1255.6 LB               | 981.4 LB                 |
| 24 "                     |                               |                  | 118.2 PSF                     | 93.3 PSF                   | 118.2 PSF                     | 93.3 PSF                   | 101.3 PSF                     | 80.0 PSF                   | 101.3 PSF                     | 80.0 PSF                   | 84.4 PSF                      | 66.6 PSF                   | 84.4 PSF                      | 66.6 PSF                   | 67.5 PSF                      | 53.3 PSF                   | 67.5 PSF                      | 53.3 PSF                   | 360.40 LB-FT            | 302.6 LB               | 1102.2 LB               | 916.7 LB                 |
| 30 "                     |                               |                  | 97.2 PSF                      | 76.7 PSF                   | 97.2 PSF                      | 76.7 PSF                   | 83.3 PSF                      | 65.7 PSF                   | 83.3 PSF                      | 65.7 PSF                   | 69.4 PSF                      | 54.8 PSF                   | 69.4 PSF                      | 54.8 PSF                   | 55.5 PSF                      | 43.8 PSF                   | 55.5 PSF                      | 43.8 PSF                   | 360.40 LB-FT            | 248.8 LB               | 1003.5 LB               | 877.2 LB                 |
| 18 "                     | 50 "                          | 7200 in²         | 75 (102.4) PSF                | 80.8 PSF                   | 75 (102.4) PSF                | 80.8 PSF                   | 75 (87.8) PSF                 | 69.3 PSF                   | 75 (87.8) PSF                 | 69.3 PSF                   | 73.1 PSF                      | 57.7 PSF                   | 73.1 PSF                      | 57.7 PSF                   | 58.5 PSF                      | 46.2 PSF                   | 58.5 PSF                      | 46.2 PSF                   | 360.40 LB-FT            | 387.8 LB               | 1384.4 LB               | 1116.3 LB                |
| 24 "                     |                               |                  | 75 (79.9) PSF                 | 63.1 PSF                   | 75 (79.9) PSF                 | 63.1 PSF                   | 68.5 PSF                      | 54.1 PSF                   | 68.5 PSF                      | 54.1 PSF                   | 57.1 PSF                      | 45.0 PSF                   | 57.1 PSF                      | 45.0 PSF                   | 45.6 PSF                      | 36.0 PSF                   | 45.6 PSF                      | 36.0 PSF                   | 360.40 LB-FT            | 302.6 LB               | 1198.7 LB               | 1022.0 LB                |
| 30 "                     |                               |                  | 65.7 PSF                      | 51.8 PSF                   | 65.7 PSF                      | 51.8 PSF                   | 56.3 PSF                      | 44.4 PSF                   | 56.3 PSF                      | 44.4 PSF                   | 46.9 PSF                      | 37.0 PSF                   | 46.9 PSF                      | 37.0 PSF                   | 37.5 PSF                      | 29.6 PSF                   | 37.5 PSF                      | 29.6 PSF                   | 360.40 LB-FT            | 248.8 LB               | 1082.8 LB               | 963.8 LB                 |
| 18 "                     | 60 "                          | 10080 in²        | 48.5 (73.8) PSF               | 58.3 PSF                   | 48.5 (72.3) PSF               | 57.0 PSF                   | 48.5 (63.3) PSF               | 49.9 PSF                   | 48.5 (62) PSF                 | 48.9 PSF                   | 48.5 (52.7) PSF               | 41.6 PSF                   | 48.5 (51.7) PSF               | 40.8 PSF                   | 42.2 PSF                      | 33.3 PSF                   | 41.4 PSF                      | 32.6 PSF                   | 360.40 LB-FT            | 387.8 LB               | 1509.8 LB               | 1249.4 LB                |
| 24 "                     |                               |                  | 48.5 (57.6) PSF               | 45.5 PSF                   | 48.5 (57.6) PSF               | 45.5 PSF                   | 48.5 (49.4) PSF               | 39.0 PSF                   | 48.5 (49.4) PSF               | 39.0 PSF                   | 41.1 PSF                      | 32.5 PSF                   | 41.1 PSF                      | 32.5 PSF                   | 32.9 PSF                      | 26.0 PSF                   | 32.9 PSF                      | 26.0 PSF                   | 360.40 LB-FT            | 302.6 LB               | 1296.6 LB               | 1125.9 LB                |
| 30 "                     |                               |                  | 47.4 PSF                      | 37.4 PSF                   | 47.4 PSF                      | 37.4 PSF                   | 40.6 PSF                      | 32.0 PSF                   | 40.6 PSF                      | 32.0 PSF                   | 33.8 PSF                      | 26.7 PSF                   | 33.8 PSF                      | 26.7 PSF                   | 27.0 PSF                      | 21.3 PSF                   | 27.0 PSF                      | 21.3 PSF                   | 360.40 LB-FT            | 248.8 LB               | 1163.3 LB               | 1049.2 LB                |

30" STAND DEPTH MINIMUM: MAX FACE AREA (2160in² - 7560in²), FRAME QUANTITY (3-6 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                  | MAX FACE AREA : 6 FRAMES      |                            |                               |                            | MAX FACE AREA : 5 FRAMES      |                            |                               |                            | MAX FACE AREA : 4 FRAMES      |                            |                               |                            | MAX FACE AREA : 3 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                  | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            |                         |                        |                         |                          |
|                          |                               |                  | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 2160 in²         | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 188.0 PSF                     | 148.4 PSF                  | 188.0 PSF                     | 148.4 PSF                  | 141.0 PSF                     | 111.3 PSF                  | 141.0 PSF                     | 111.3 PSF                  | 360.40 LB-FT            | 387.8 LB               | 1136.5 LB               | 843.1 LB                 |
| 24 "                     |                               |                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 183.4 PSF                     | 144.8 PSF                  | 183.4 PSF                     | 144.8 PSF                  | 146.7 PSF                     | 115.8 PSF                  | 146.7 PSF                     | 115.8 PSF                  | 110.0 PSF                     | 86.8 PSF                   | 110.0 PSF                     | 86.8 PSF                   | 360.40 LB-FT            | 302.6 LB               | 1007.8 LB               | 808.7 LB                 |
| 30 "                     |                               |                  | 180.9 PSF                     | 142.8 PSF                  | 180.9 PSF                     | 142.8 PSF                  | 150.8 PSF                     | 119.0 PSF                  | 150.8 PSF                     | 119.0 PSF                  | 120.6 PSF                     | 95.2 PSF                   | 120.6 PSF                     | 95.2 PSF                   | 90.4 PSF                      | 71.4 PSF                   | 90.4 PSF                      | 71.4 PSF                   | 360.40 LB-FT            | 248.8 LB               | 927.9 LB                | 788.4 LB                 |
| 18 "                     | 40 "                          | 3600 in²         | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 115.4 PSF                     | 91.1 PSF                   | 115.4 PSF                     | 91.1 PSF                   | 86.5 PSF                      | 68.3 PSF                   | 86.5 PSF                      | 68.3 PSF                   | 360.40 LB-FT            | 387.8 LB               | 1256.7 LB               | 981.4 LB                 |
| 24 "                     |                               |                  | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 112.6 PSF                     | 88.9 PSF                   | 112.6 PSF                     | 88.9 PSF                   | 90.1 PSF                      | 71.1 PSF                   | 90.1 PSF                      | 71.1 PSF                   | 67.5 PSF                      | 53.3 PSF                   | 67.5 PSF                      | 53.3 PSF                   | 360.40 LB-FT            | 302.6 LB               | 1101.6 LB               | 916.7 LB                 |
| 30 "                     |                               |                  | 111.1 PSF                     | 87.7 PSF                   | 111.1 PSF                     | 87.7 PSF                   | 92.5 PSF                      | 73.1 PSF                   | 92.5 PSF                      | 73.1 PSF                   | 74.0 PSF                      | 58.4 PSF                   | 74.0 PSF                      | 58.4 PSF                   | 55.5 PSF                      | 43.8 PSF                   | 55.5 PSF                      | 43.8 PSF                   | 360.40 LB-FT            | 248.8 LB               | 1005.1 LB               | 877.2 LB                 |
| 18 "                     | 50 "                          | 5400 in²         | 75 (114.7) PSF                | 92.4 PSF                   | 75 (114.7) PSF                | 92.4 PSF                   | 75 (97.5) PSF                 | 77.0 PSF                   | 75 (97.5) PSF                 | 77.0 PSF                   | 75 (78) PSF                   | 61.6 PSF                   | 75 (78) PSF                   | 61.6 PSF                   | 58.5 PSF                      | 46.2 PSF                   | 58.5 PSF                      | 46.2 PSF                   | 360.40 LB-FT            | 387.8 LB               | 1386.0 LB               | 1116.3 LB                |
| 24 "                     |                               |                  | 75 (91.3) PSF                 | 72.1 PSF                   | 75 (91.3) PSF                 | 72.1 PSF                   | 75 (76.1) PSF                 | 60.1 PSF                   | 75 (76.1) PSF                 | 60.1 PSF                   | 60.9 PSF                      | 48.0 PSF                   | 60.9 PSF                      | 48.0 PSF                   | 45.6 PSF                      | 36.0 PSF                   | 45.6 PSF                      | 36.0 PSF                   | 360.40 LB-FT            | 302.6 LB               | 1200.3 LB               | 1022.0 LB                |
| 30 "                     |                               |                  | 75 (75.1) PSF                 | 59.3 PSF                   | 75 (75.1) PSF                 | 59.3 PSF                   | 62.6 PSF                      | 49.4 PSF                   | 62.6 PSF                      | 49.4 PSF                   | 50.0 PSF                      | 39.5 PSF                   | 50.0 PSF                      | 39.5 PSF                   | 37.5 PSF                      | 29.6 PSF                   | 37.5 PSF                      | 29.6 PSF                   | 360.40 LB-FT            | 248.8 LB               | 1084.4 LB               | 963.8 LB                 |
| 18 "                     | 60 "                          | 7560 in²         | 48.5 (84.4) PSF               | 66.6 PSF                   | 48.5 (82.6) PSF               | 65.2 PSF                   | 48.5 (70.3) PSF               | 55.5 PSF                   | 48.5 (68.8) PSF               | 54.3 PSF                   | 48.5 (56.2) PSF               | 44.4 PSF                   | 48.5 (55.1) PSF               | 43.5 PSF                   | 42.2 PSF                      | 33.3 PSF                   | 41.4 PSF                      | 32.6 PSF                   | 360.40 LB-FT            | 387.8 LB               | 1511.4 LB               | 1249.4 LB                |
| 24 "                     |                               |                  | 48.5 (65.8) PSF               | 52.0 PSF                   | 48.5 (65.8) PSF               | 52.0 PSF                   | 48.5 (54.9) PSF               | 43.3 PSF                   | 48.5 (54.9) PSF               | 43.3 PSF                   | 43.9 PSF                      | 34.6 PSF                   | 43.9 PSF                      | 34.6 PSF                   | 32.9 PSF                      | 26.0 PSF                   | 32.9 PSF                      | 26.0 PSF                   | 360.40 LB-FT            | 302.6 LB               | 1298.2 LB               | 1125.9 LB                |
| 30 "                     |                               |                  | 48.5 (54.1) PSF               | 42.7 PSF                   | 48.5 (54.1) PSF               | 42.7 PSF                   | 45.1 PSF                      | 35.6 PSF                   | 45.1 PSF                      | 35.6 PSF                   | 36.1 PSF                      | 28.5 PSF                   | 36.1 PSF                      | 28.5 PSF                   | 27.0 PSF                      | 21.3 PSF                   | 27.0 PSF                      | 21.3 PSF                   | 360.40 LB-FT            | 248.8 LB               | 1164.9 LB               | 1049.2 LB                |

30" STAND DEPTH MINIMUM: MAX FACE AREA (1440in² - 5040in²), FRAME QUANTITY (2-5 FRAMES)

| STAND CLEAR HEIGHT | MAX MEAN UNIT HEIGHT | MAX FACE AREA | UNIT TO FRAME RATIO        |                      |                            |                      |                            |                      |                            |                      |                            |                      |                            |                      |                            |                      |                            |                      | MAX. BASE MOMENT (M) | MAX. BASE SHEAR (V) | MAX. BASE UPLIFT (T) | MAX. BASE GRAVITY (C) |
|--------------------|----------------------|---------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------|---------------------|----------------------|-----------------------|
|                    |                      |               | MAX FACE AREA : 5 FRAMES   |                      |                            |                      | MAX FACE AREA : 4 FRAMES   |                      |                            |                      | MAX FACE AREA : 3 FRAMES   |                      |                            |                      | MAX FACE AREA : 2 FRAMES   |                      |                            |                      |                      |                     |                      |                       |
|                    |                      |               | ANCHOR TYPE: 1 OR 4        |                      | ANCHORS TYPE: 2 OR 3       |                      | ANCHOR TYPE: 1 OR 4        |                      | ANCHORS TYPE: 2 OR 3       |                      | ANCHOR TYPE: 1 OR 4        |                      | ANCHORS TYPE: 2 OR 3       |                      | ANCHOR TYPE: 1 OR 4        |                      | ANCHORS TYPE: 2 OR 3       |                      |                      |                     |                      |                       |
|                    |                      |               | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT |                      |                     |                      |                       |
| 18 "               | 30 "                 | 1440 in²      | 200.0 PSF                  | 157.8 PSF            | 200.0 PSF                  | 157.8 PSF            | 200.0 PSF                  | 157.8 PSF            | 200.0 PSF                  | 157.8 PSF            | 200.0 PSF                  | 157.8 PSF            | 200.0 PSF                  | 157.8 PSF            | 141.0 PSF                  | 111.3 PSF            | 141.0 PSF                  | 111.3 PSF            | 360.40 LB-FT         | 387.8 LB            | 1130.9 LB            | 843.1 LB              |
| 24 "               |                      |               | 200.0 PSF                  | 157.8 PSF            | 200.0 PSF                  | 157.8 PSF            | 200.0 PSF                  | 157.8 PSF            | 200.0 PSF                  | 157.8 PSF            | 165.1 PSF                  | 130.3 PSF            | 165.1 PSF                  | 130.3 PSF            | 110.0 PSF                  | 86.8 PSF             | 110.0 PSF                  | 86.8 PSF             | 360.40 LB-FT         | 302.6 LB            | 1006.3 LB            | 808.7 LB              |
| 30 "               |                      |               | 200.0 PSF                  | 157.8 PSF            | 200.0 PSF                  | 157.8 PSF            | 180.9 PSF                  | 142.8 PSF            | 180.9 PSF                  | 142.8 PSF            | 135.7 PSF                  | 107.1 PSF            | 135.7 PSF                  | 107.1 PSF            | 90.4 PSF                   | 71.4 PSF             | 90.4 PSF                   | 71.4 PSF             | 360.40 LB-FT         | 248.8 LB            | 927.9 LB             | 788.4 LB              |
| 18 "               | 40 "                 | 2400 in²      | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 86.5 PSF                   | 68.3 PSF             | 86.5 PSF                   | 68.3 PSF             | 360.40 LB-FT         | 387.8 LB            | 1251.1 LB            | 981.4 LB              |
| 24 "               |                      |               | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 101.3 PSF                  | 80.0 PSF             | 101.3 PSF                  | 80.0 PSF             | 67.5 PSF                   | 53.3 PSF             | 67.5 PSF                   | 53.3 PSF             | 360.40 LB-FT         | 302.6 LB            | 1100.1 LB            | 916.7 LB              |
| 30 "               |                      |               | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 111.1 PSF                  | 87.7 PSF             | 111.1 PSF                  | 87.7 PSF             | 83.3 PSF                   | 65.7 PSF             | 83.3 PSF                   | 65.7 PSF             | 55.5 PSF                   | 43.8 PSF             | 55.5 PSF                   | 43.8 PSF             | 360.40 LB-FT         | 248.8 LB            | 1005.1 LB            | 877.2 LB              |
| 18 "               | 50 "                 | 3600 in²      | 75 (114.7) PSF             | 115.5 PSF            | 75 (114.7) PSF             | 115.5 PSF            | 75 (114.7) PSF             | 92.4 PSF             | 75 (114.7) PSF             | 92.4 PSF             | 75 (87.8) PSF              | 69.3 PSF             | 75 (87.8) PSF              | 69.3 PSF             | 58.5 PSF                   | 46.2 PSF             | 58.5 PSF                   | 46.2 PSF             | 360.40 LB-FT         | 387.8 LB            | 1388.2 LB            | 1116.3 LB             |
| 24 "               |                      |               | 75 (114.2) PSF             | 90.1 PSF             | 75 (114.2) PSF             | 90.1 PSF             | 75 (91.3) PSF              | 72.1 PSF             | 75 (91.3) PSF              | 72.1 PSF             | 68.5 PSF                   | 54.1 PSF             | 68.5 PSF                   | 54.1 PSF             | 45.6 PSF                   | 36.0 PSF             | 45.6 PSF                   | 36.0 PSF             | 360.40 LB-FT         | 302.6 LB            | 1202.6 LB            | 1022.0 LB             |
| 30 "               |                      |               | 75 (93.9) PSF              | 74.1 PSF             | 75 (93.9) PSF              | 74.1 PSF             | 75 (75.1) PSF              | 59.3 PSF             | 75 (75.1) PSF              | 59.3 PSF             | 56.3 PSF                   | 44.4 PSF             | 56.3 PSF                   | 44.4 PSF             | 37.5 PSF                   | 29.6 PSF             | 37.5 PSF                   | 29.6 PSF             | 360.40 LB-FT         | 248.8 LB            | 1086.7 LB            | 902.8 LB              |
| 18 "               | 60 "                 | 5040 in²      | 48.5 (88.2) PSF            | 76.1 PSF             | 48.5 (88.4) PSF            | 76.1 PSF             | 48.5 (88.4) PSF            | 66.6 PSF             | 48.5 (82.6) PSF            | 65.2 PSF             | 48.5 (63.3) PSF            | 49.9 PSF             | 48.5 (62) PSF              | 48.9 PSF             | 42.2 PSF                   | 33.3 PSF             | 41.4 PSF                   | 32.6 PSF             | 360.40 LB-FT         | 387.8 LB            | 1511.4 LB            | 1249.4 LB             |
| 24 "               |                      |               | 48.5 (82.3) PSF            | 65.0 PSF             | 48.5 (82.3) PSF            | 65.0 PSF             | 48.5 (65.8) PSF            | 52.0 PSF             | 48.5 (65.8) PSF            | 52.0 PSF             | 48.5 (49.4) PSF            | 39.0 PSF             | 48.5 (49.4) PSF            | 39.0 PSF             | 32.9 PSF                   | 26.0 PSF             | 32.9 PSF                   | 26.0 PSF             | 360.40 LB-FT         | 302.6 LB            | 1300.5 LB            | 1125.9 LB             |
| 30 "               |                      |               | 48.5 (67.7) PSF            | 53.4 PSF             | 48.5 (67.7) PSF            | 53.4 PSF             | 48.5 (54.1) PSF            | 42.7 PSF             | 48.5 (54.1) PSF            | 42.7 PSF             | 40.6 PSF                   | 32.0 PSF             | 40.6 PSF                   | 32.0 PSF             | 27.0 PSF                   | 21.3 PSF             | 27.0 PSF                   | 21.3 PSF             | 360.40 LB-FT         | 248.8 LB            | 1167.1 LB            | 1049.2 LB             |

"HD" STAND DESIGN SCHEDULE

36" STAND DEPTH MINIMUM: MAX FACE AREA (3600in<sup>2</sup> - 12600in<sup>2</sup>), FRAME QUANTITY (5-8 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA      | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|-----------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                       | MAX FACE AREA : 8 FRAMES      |                            |                               |                            | MAX FACE AREA : 7 FRAMES      |                            |                               |                            | MAX FACE AREA : 6 FRAMES      |                            |                               |                            | MAX FACE AREA : 5 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                       | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            |                         |                        |                         |                          |
|                          |                               |                       | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 3600 in <sup>2</sup>  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 197.6 PSF                     | 156.0 PSF                  | 197.6 PSF                     | 156.0 PSF                  | 169.4 PSF                     | 133.7 PSF                  | 169.4 PSF                     | 133.7 PSF                  | 141.1 PSF                     | 111.4 PSF                  | 141.1 PSF                     | 111.4 PSF                  | 360.40 LB-FT            | 388.2 LB               | 983.3 LB                | 688.6 LB                 |
| 24 "                     |                               |                       | 176.2 PSF                     | 139.1 PSF                  | 176.2 PSF                     | 139.1 PSF                  | 154.2 PSF                     | 121.7 PSF                  | 154.2 PSF                     | 121.7 PSF                  | 132.2 PSF                     | 104.3 PSF                  | 132.2 PSF                     | 104.3 PSF                  | 110.1 PSF                     | 86.9 PSF                   | 110.1 PSF                     | 86.9 PSF                   | 360.40 LB-FT            | 302.9 LB               | 866.8 LB                | 668.0 LB                 |
| 30 "                     |                               |                       | 144.9 PSF                     | 114.4 PSF                  | 144.9 PSF                     | 114.4 PSF                  | 126.8 PSF                     | 100.1 PSF                  | 126.8 PSF                     | 100.1 PSF                  | 108.6 PSF                     | 85.8 PSF                   | 108.6 PSF                     | 85.8 PSF                   | 90.5 PSF                      | 71.5 PSF                   | 90.5 PSF                      | 71.5 PSF                   | 360.40 LB-FT            | 249.0 LB               | 793.1 LB                | 656.2 LB                 |
| 18 "                     | 40 "                          | 6000 in <sup>2</sup>  | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 121.3 PSF                     | 95.8 PSF                   | 121.3 PSF                     | 95.8 PSF                   | 104.0 PSF                     | 82.1 PSF                   | 104.0 PSF                     | 82.1 PSF                   | 86.6 PSF                      | 68.4 PSF                   | 86.6 PSF                      | 68.4 PSF                   | 360.40 LB-FT            | 388.2 LB               | 1082.1 LB               | 805.5 LB                 |
| 24 "                     |                               |                       | 108.2 PSF                     | 85.4 PSF                   | 108.2 PSF                     | 85.4 PSF                   | 94.7 PSF                      | 74.7 PSF                   | 94.7 PSF                      | 74.7 PSF                   | 81.1 PSF                      | 64.0 PSF                   | 81.1 PSF                      | 64.0 PSF                   | 67.6 PSF                      | 53.4 PSF                   | 67.6 PSF                      | 53.4 PSF                   | 360.40 LB-FT            | 302.9 LB               | 943.9 LB                | 759.2 LB                 |
| 30 "                     |                               |                       | 88.9 PSF                      | 70.2 PSF                   | 88.9 PSF                      | 70.2 PSF                   | 77.8 PSF                      | 61.4 PSF                   | 77.8 PSF                      | 61.4 PSF                   | 66.7 PSF                      | 52.6 PSF                   | 66.7 PSF                      | 52.6 PSF                   | 55.6 PSF                      | 43.9 PSF                   | 55.6 PSF                      | 43.9 PSF                   | 360.40 LB-FT            | 249.0 LB               | 856.5 LB                | 731.2 LB                 |
| 18 "                     | 50 "                          | 9000 in <sup>2</sup>  | 83.1 (93.7) PSF               | 74.0 PSF                   | 83.1 (93.7) PSF               | 74.0 PSF                   | 82.0 PSF                      | 64.7 PSF                   | 82.0 PSF                      | 64.7 PSF                   | 70.3 PSF                      | 55.5 PSF                   | 70.3 PSF                      | 55.5 PSF                   | 58.6 PSF                      | 46.2 PSF                   | 58.6 PSF                      | 46.2 PSF                   | 360.40 LB-FT            | 388.2 LB               | 1186.3 LB               | 919.0 LB                 |
| 24 "                     |                               |                       | 73.1 PSF                      | 57.7 PSF                   | 73.1 PSF                      | 57.7 PSF                   | 64.0 PSF                      | 50.5 PSF                   | 64.0 PSF                      | 50.5 PSF                   | 54.8 PSF                      | 43.3 PSF                   | 54.8 PSF                      | 43.3 PSF                   | 45.7 PSF                      | 36.1 PSF                   | 45.7 PSF                      | 36.1 PSF                   | 360.40 LB-FT            | 302.9 LB               | 1023.7 LB               | 847.8 LB                 |
| 30 "                     |                               |                       | 60.1 PSF                      | 47.4 PSF                   | 60.1 PSF                      | 47.4 PSF                   | 52.6 PSF                      | 41.5 PSF                   | 52.6 PSF                      | 41.5 PSF                   | 45.1 PSF                      | 35.6 PSF                   | 45.1 PSF                      | 35.6 PSF                   | 37.5 PSF                      | 29.6 PSF                   | 37.5 PSF                      | 29.6 PSF                   | 360.40 LB-FT            | 249.0 LB               | 922.1 LB                | 804.0 LB                 |
| 18 "                     | 60 "                          | 12600 in <sup>2</sup> | 54.2 (67.6) PSF               | 53.3 PSF                   | 54.2 (67.6) PSF               | 53.3 PSF                   | 54.2 (59.1) PSF               | 46.7 PSF                   | 54.2 (59.1) PSF               | 46.7 PSF                   | 50.7 PSF                      | 40.0 PSF                   | 50.7 PSF                      | 40.0 PSF                   | 42.2 PSF                      | 33.3 PSF                   | 42.2 PSF                      | 33.3 PSF                   | 360.40 LB-FT            | 388.2 LB               | 1290.3 LB               | 1030.7 LB                |
| 24 "                     |                               |                       | 52.7 PSF                      | 41.6 PSF                   | 52.7 PSF                      | 41.6 PSF                   | 46.1 PSF                      | 36.4 PSF                   | 46.1 PSF                      | 36.4 PSF                   | 39.5 PSF                      | 31.2 PSF                   | 39.5 PSF                      | 31.2 PSF                   | 32.9 PSF                      | 26.0 PSF                   | 32.9 PSF                      | 26.0 PSF                   | 360.40 LB-FT            | 302.9 LB               | 1104.8 LB               | 935.0 LB                 |
| 30 "                     |                               |                       | 43.3 PSF                      | 34.2 PSF                   | 43.3 PSF                      | 34.2 PSF                   | 37.9 PSF                      | 29.9 PSF                   | 37.9 PSF                      | 29.9 PSF                   | 32.5 PSF                      | 25.6 PSF                   | 32.5 PSF                      | 25.6 PSF                   | 27.1 PSF                      | 21.4 PSF                   | 27.1 PSF                      | 21.4 PSF                   | 360.40 LB-FT            | 249.0 LB               | 988.8 LB                | 875.6 LB                 |

36" STAND DEPTH MINIMUM: MAX FACE AREA (2880in<sup>2</sup> - 10080in<sup>2</sup>), FRAME QUANTITY (4-7 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                  | MAX FACE AREA : 7 FRAMES      |                            |                               |                            | MAX FACE AREA : 6 FRAMES      |                            |                               |                            | MAX FACE AREA : 5 FRAMES      |                            |                               |                            | MAX FACE AREA : 4 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                  | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            |                         |                        |                         |                          |
|                          |                               |                  | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 2880 in²         | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 176.4 PSF                     | 139.3 PSF                  | 176.4 PSF                     | 139.3 PSF                  | 141.1 PSF                     | 111.4 PSF                  | 141.1 PSF                     | 111.4 PSF                  | 360.40 LB-FT            | 388.2 LB               | 981.4 LB                | 688.6 LB                 |
| 24 "                     |                               |                  | 192.8 PSF                     | 152.2 PSF                  | 192.8 PSF                     | 152.2 PSF                  | 165.2 PSF                     | 130.4 PSF                  | 165.2 PSF                     | 130.4 PSF                  | 137.7 PSF                     | 108.7 PSF                  | 137.7 PSF                     | 108.7 PSF                  | 110.1 PSF                     | 86.9 PSF                   | 110.1 PSF                     | 86.9 PSF                   | 360.40 LB-FT            | 302.9 LB               | 868.0 LB                | 668.0 LB                 |
| 30 "                     |                               |                  | 158.5 PSF                     | 125.1 PSF                  | 158.5 PSF                     | 125.1 PSF                  | 135.8 PSF                     | 107.2 PSF                  | 135.8 PSF                     | 107.2 PSF                  | 113.2 PSF                     | 89.3 PSF                   | 113.2 PSF                     | 89.3 PSF                   | 90.5 PSF                      | 71.5 PSF                   | 90.5 PSF                      | 71.5 PSF                   | 360.40 LB-FT            | 249.0 LB               | 794.3 LB                | 656.2 LB                 |
| 18 "                     | 40 "                          | 4800 in²         | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 108.3 PSF                     | 85.5 PSF                   | 108.3 PSF                     | 85.5 PSF                   | 86.6 PSF                      | 68.4 PSF                   | 86.6 PSF                      | 68.4 PSF                   | 360.40 LB-FT            | 388.2 LB               | 1080.2 LB               | 805.5 LB                 |
| 24 "                     |                               |                  | 118.3 PSF                     | 93.4 PSF                   | 118.3 PSF                     | 93.4 PSF                   | 101.4 PSF                     | 80.1 PSF                   | 101.4 PSF                     | 80.1 PSF                   | 84.5 PSF                      | 66.7 PSF                   | 84.5 PSF                      | 66.7 PSF                   | 67.6 PSF                      | 53.4 PSF                   | 67.6 PSF                      | 53.4 PSF                   | 360.40 LB-FT            | 302.9 LB               | 945.1 LB                | 759.2 LB                 |
| 30 "                     |                               |                  | 97.3 PSF                      | 76.8 PSF                   | 97.3 PSF                      | 76.8 PSF                   | 83.4 PSF                      | 65.8 PSF                   | 83.4 PSF                      | 65.8 PSF                   | 69.5 PSF                      | 54.8 PSF                   | 69.5 PSF                      | 54.8 PSF                   | 55.6 PSF                      | 43.9 PSF                   | 55.6 PSF                      | 43.9 PSF                   | 360.40 LB-FT            | 249.0 LB               | 857.7 LB                | 731.2 LB                 |
| 18 "                     | 50 "                          | 7200 in²         | 83.1 (102.5) PSF              | 80.9 PSF                   | 83.1 (102.5) PSF              | 80.9 PSF                   | 83.1 (87.9) PSF               | 69.4 PSF                   | 83.1 (87.9) PSF               | 69.4 PSF                   | 73.2 PSF                      | 57.8 PSF                   | 73.2 PSF                      | 57.8 PSF                   | 58.6 PSF                      | 46.2 PSF                   | 58.6 PSF                      | 46.2 PSF                   | 360.40 LB-FT            | 388.2 LB               | 1187.5 LB               | 919.0 LB                 |
| 24 "                     |                               |                  | 80.0 PSF                      | 63.1 PSF                   | 80.0 PSF                      | 63.1 PSF                   | 68.6 PSF                      | 54.1 PSF                   | 68.6 PSF                      | 54.1 PSF                   | 57.1 PSF                      | 45.1 PSF                   | 57.1 PSF                      | 45.1 PSF                   | 45.7 PSF                      | 36.1 PSF                   | 45.7 PSF                      | 36.1 PSF                   | 360.40 LB-FT            | 302.9 LB               | 1024.9 LB               | 847.8 LB                 |
| 30 "                     |                               |                  | 65.7 PSF                      | 51.9 PSF                   | 65.7 PSF                      | 51.9 PSF                   | 56.3 PSF                      | 44.5 PSF                   | 56.3 PSF                      | 44.5 PSF                   | 46.9 PSF                      | 37.1 PSF                   | 46.9 PSF                      | 37.1 PSF                   | 37.5 PSF                      | 29.6 PSF                   | 37.5 PSF                      | 29.6 PSF                   | 360.40 LB-FT            | 249.0 LB               | 923.3 LB                | 804.0 LB                 |
| 18 "                     | 60 "                          | 10080 in²        | 54.2 (73.9) PSF               | 58.3 PSF                   | 54.2 (73.9) PSF               | 58.3 PSF                   | 54.2 (63.3) PSF               | 50.0 PSF                   | 54.2 (63.3) PSF               | 50.0 PSF                   | 52.8 PSF                      | 41.7 PSF                   | 52.8 PSF                      | 41.7 PSF                   | 42.2 PSF                      | 33.3 PSF                   | 42.2 PSF                      | 33.3 PSF                   | 360.40 LB-FT            | 388.2 LB               | 1291.5 LB               | 1030.7 LB                |
| 24 "                     |                               |                  | 54.2 (57.7) PSF               | 45.5 PSF                   | 54.2 (57.7) PSF               | 45.5 PSF                   | 49.4 PSF                      | 39.0 PSF                   | 49.4 PSF                      | 39.0 PSF                   | 41.2 PSF                      | 32.5 PSF                   | 41.2 PSF                      | 32.5 PSF                   | 32.9 PSF                      | 26.0 PSF                   | 32.9 PSF                      | 26.0 PSF                   | 360.40 LB-FT            | 302.9 LB               | 1106.0 LB               | 935.0 LB                 |
| 30 "                     |                               |                  | 47.4 PSF                      | 37.4 PSF                   | 47.4 PSF                      | 37.4 PSF                   | 40.6 PSF                      | 32.1 PSF                   | 40.6 PSF                      | 32.1 PSF                   | 33.8 PSF                      | 26.7 PSF                   | 33.8 PSF                      | 26.7 PSF                   | 27.1 PSF                      | 21.4 PSF                   | 27.1 PSF                      | 21.4 PSF                   | 360.40 LB-FT            | 249.0 LB               | 990.0 LB                | 875.6 LB                 |

36" STAND DEPTH MINIMUM: MAX FACE AREA (2160in<sup>2</sup> - 7560in<sup>2</sup>), FRAME QUANTITY (3-6 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                  | MAX FACE AREA : 6 FRAMES      |                            |                               |                            | MAX FACE AREA : 5 FRAMES      |                            |                               |                            | MAX FACE AREA : 4 FRAMES      |                            |                               |                            | MAX FACE AREA : 3 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                  | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            |                         |                        |                         |                          |
|                          |                               |                  | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 2160 in²         | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 188.2 PSF                     | 148.6 PSF                  | 188.2 PSF                     | 148.6 PSF                  | 141.1 PSF                     | 111.4 PSF                  | 141.1 PSF                     | 111.4 PSF                  | 360.40 LB-FT            | 388.2 LB               | 982.5 LB                | 688.6 LB                 |
| 24 "                     |                               |                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 183.6 PSF                     | 144.9 PSF                  | 183.6 PSF                     | 144.9 PSF                  | 146.9 PSF                     | 115.9 PSF                  | 146.9 PSF                     | 115.9 PSF                  | 110.1 PSF                     | 86.9 PSF                   | 110.1 PSF                     | 86.9 PSF                   | 360.40 LB-FT            | 302.9 LB               | 867.4 LB                | 668.0 LB                 |
| 30 "                     |                               |                  | 181.1 PSF                     | 143.0 PSF                  | 181.1 PSF                     | 143.0 PSF                  | 150.9 PSF                     | 119.1 PSF                  | 150.9 PSF                     | 119.1 PSF                  | 120.7 PSF                     | 95.3 PSF                   | 120.7 PSF                     | 95.3 PSF                   | 90.5 PSF                      | 71.5 PSF                   | 90.5 PSF                      | 71.5 PSF                   | 360.40 LB-FT            | 249.0 LB               | 795.9 LB                | 656.2 LB                 |
| 18 "                     | 40 "                          | 3600 in²         | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 115.5 PSF                     | 91.2 PSF                   | 115.5 PSF                     | 91.2 PSF                   | 86.6 PSF                      | 68.4 PSF                   | 86.6 PSF                      | 68.4 PSF                   | 360.40 LB-FT            | 388.2 LB               | 1081.3 LB               | 805.5 LB                 |
| 24 "                     |                               |                  | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 112.7 PSF                     | 89.0 PSF                   | 112.7 PSF                     | 89.0 PSF                   | 90.1 PSF                      | 71.2 PSF                   | 90.1 PSF                      | 71.2 PSF                   | 67.6 PSF                      | 53.4 PSF                   | 67.6 PSF                      | 53.4 PSF                   | 360.40 LB-FT            | 302.9 LB               | 944.5 LB                | 759.2 LB                 |
| 30 "                     |                               |                  | 111.2 PSF                     | 87.8 PSF                   | 111.2 PSF                     | 87.8 PSF                   | 92.6 PSF                      | 73.1 PSF                   | 92.6 PSF                      | 73.1 PSF                   | 74.1 PSF                      | 58.5 PSF                   | 74.1 PSF                      | 58.5 PSF                   | 55.6 PSF                      | 43.9 PSF                   | 55.6 PSF                      | 43.9 PSF                   | 360.40 LB-FT            | 249.0 LB               | 859.3 LB                | 731.2 LB                 |
| 18 "                     | 50 "                          | 5400 in²         | 83.1 (117.2) PSF              | 92.5 PSF                   | 83.1 (117.2) PSF              | 92.5 PSF                   | 83.1 (97.6) PSF               | 77.1 PSF                   | 83.1 (97.6) PSF               | 77.1 PSF                   | 78.1 PSF                      | 61.6 PSF                   | 78.1 PSF                      | 61.6 PSF                   | 58.6 PSF                      | 46.2 PSF                   | 58.6 PSF                      | 46.2 PSF                   | 360.40 LB-FT            | 388.2 LB               | 1189.1 LB               | 919.0 LB                 |
| 24 "                     |                               |                  | 83.1 (91.4) PSF               | 72.2 PSF                   | 83.1 (91.4) PSF               | 72.2 PSF                   | 76.2 PSF                      | 60.1 PSF                   | 76.2 PSF                      | 60.1 PSF                   | 60.9 PSF                      | 48.1 PSF                   | 60.9 PSF                      | 48.1 PSF                   | 45.7 PSF                      | 36.1 PSF                   | 45.7 PSF                      | 36.1 PSF                   | 360.40 LB-FT            | 302.9 LB               | 1026.5 LB               | 847.8 LB                 |
| 30 "                     |                               |                  | 75.1 PSF                      | 59.3 PSF                   | 75.1 PSF                      | 59.3 PSF                   | 62.6 PSF                      | 49.4 PSF                   | 62.6 PSF                      | 49.4 PSF                   | 50.1 PSF                      | 39.5 PSF                   | 50.1 PSF                      | 39.5 PSF                   | 37.5 PSF                      | 29.6 PSF                   | 37.5 PSF                      | 29.6 PSF                   | 360.40 LB-FT            | 249.0 LB               | 924.9 LB                | 804.0 LB                 |
| 18 "                     | 60 "                          | 7560 in²         | 54.2 (84.5) PSF               | 66.7 PSF                   | 54.2 (84.5) PSF               | 66.7 PSF                   | 54.2 (70.4) PSF               | 55.6 PSF                   | 54.2 (70.4) PSF               | 55.6 PSF                   | 54.2 (56.3) PSF               | 44.4 PSF                   | 54.2 (56.3) PSF               | 44.4 PSF                   | 42.2 PSF                      | 33.3 PSF                   | 42.2 PSF                      | 33.3 PSF                   | 360.40 LB-FT            | 388.2 LB               | 1293.1 LB               | 1030.7 LB                |
| 24 "                     |                               |                  | 54.2 (65.9) PSF               | 52.0 PSF                   | 54.2 (65.9) PSF               | 52.0 PSF                   | 54.2 (54.9) PSF               | 43.3 PSF                   | 54.2 (54.9) PSF               | 43.3 PSF                   | 43.9 PSF                      | 34.7 PSF                   | 43.9 PSF                      | 34.7 PSF                   | 32.9 PSF                      | 26.0 PSF                   | 32.9 PSF                      | 26.0 PSF                   | 360.40 LB-FT            | 302.9 LB               | 1107.6 LB               | 930.5 LB                 |
| 30 "                     |                               |                  | 54.2 (54.2) PSF               | 42.8 PSF                   | 54.2 (54.2) PSF               | 42.8 PSF                   | 45.1 PSF                      | 35.6 PSF                   | 45.1 PSF                      | 35.6 PSF                   | 36.1 PSF                      | 28.5 PSF                   | 36.1 PSF                      | 28.5 PSF                   | 27.1 PSF                      | 21.4 PSF                   | 27.1 PSF                      | 21.4 PSF                   | 360.40 LB-FT            | 249.0 LB               | 991.6 LB                | 875.6 LB                 |



"HD" STAND DESIGN SCHEDULE CONTINUED

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 17-1218.02  
Expiration Date 01/15/2024  
By   
Miami Dade Product Control

| 36" STAND DEPTH MINIMUM: MAX FACE AREA (720in² - 2520in³), FRAME QUANTITY (2-3 FRAMES) |                               |                  |                               |                            |                               |                            |                               |                            |                               |                            | LOAD TRANSFER INFORMATION FOR USE WITH HOST<br>STRUCTURE VERIFICATION ONLY |                        |                         |                          |
|----------------------------------------------------------------------------------------|-------------------------------|------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|----------------------------------------------------------------------------|------------------------|-------------------------|--------------------------|
| STAND<br>CLEAR<br>HEIGHT                                                               | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M)                                                    | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|                                                                                        |                               |                  | MAX FACE AREA : 3 FRAMES      |                            |                               |                            | MAX FACE AREA : 2 FRAMES      |                            |                               |                            |                                                                            |                        |                         |                          |
|                                                                                        |                               |                  | ANCHOR TYPE: 1 OR 4           |                            | ANCHOR TYPE: 2 OR 3           |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHOR TYPE: 2 OR 3           |                            |                                                                            |                        |                         |                          |
|                                                                                        |                               |                  | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                                                                            |                        |                         |                          |
| 18 "                                                                                   | 30 "                          | 720 in²          | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 255.30 LB-FT                                                               | 274.9 LB               | 696.6 LB                | 459.6 LB                 |
| 24 "                                                                                   |                               |                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 327.10 LB-FT                                                               | 274.9 LB               | 788.3 LB                | 551.2 LB                 |
| 30 "                                                                                   |                               |                  | 200.0 PSF                     | 157.8 PSF                  | 200.0 PSF                     | 157.8 PSF                  | 181.1 PSF                     | 143.0 PSF                  | 181.1 PSF                     | 143.0 PSF                  | 360.40 LB-FT                                                               | 249.0 LB               | 795.9 LB                | 588.7 LB                 |
| 18 "                                                                                   | 40 "                          | 1200 in²         | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 259.90 LB-FT                                                               | 279.9 LB               | 780.6 LB                | 551.0 LB                 |
| 24 "                                                                                   |                               |                  | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 333.00 LB-FT                                                               | 279.9 LB               | 873.9 LB                | 644.3 LB                 |
| 30 "                                                                                   |                               |                  | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 111.2 PSF                     | 87.8 PSF                   | 111.2 PSF                     | 87.8 PSF                   | 360.40 LB-FT                                                               | 249.0 LB               | 859.3 LB                | 663.7 LB                 |
| 18 "                                                                                   | 50 "                          | 1800 in²         | 83.1 (122.8) PSF              | 138.8 PSF                  | 83.1 (122.8) PSF              | 138.8 PSF                  | 83.1 (117.2) PSF              | 92.5 PSF                   | 83.1 (117.2) PSF              | 92.5 PSF                   | 360.40 LB-FT                                                               | 388.2 LB               | 1192.9 LB               | 851.5 LB                 |
| 24 "                                                                                   |                               |                  | 83.1 (122.8) PSF              | 108.3 PSF                  | 83.1 (122.8) PSF              | 108.3 PSF                  | 83.1 (91.4) PSF               | 72.2 PSF                   | 83.1 (91.4) PSF               | 72.2 PSF                   | 360.40 LB-FT                                                               | 302.9 LB               | 1030.2 LB               | 780.3 LB                 |
| 30 "                                                                                   |                               |                  | 83.1 (112.7) PSF              | 89.0 PSF                   | 83.1 (112.7) PSF              | 89.0 PSF                   | 75.1 PSF                      | 59.3 PSF                   | 75.1 PSF                      | 59.3 PSF                   | 360.40 LB-FT                                                               | 249.0 LB               | 928.6 LB                | 736.5 LB                 |
| 18 "                                                                                   | 60 "                          | 2520 in²         | 54.2 (93.9) PSF               | 98.8 PSF                   | 54.2 (93.9) PSF               | 98.8 PSF                   | 54.2 (84.5) PSF               | 66.7 PSF                   | 54.2 (84.5) PSF               | 66.7 PSF                   | 360.40 LB-FT                                                               | 388.2 LB               | 1293.1 LB               | 963.2 LB                 |
| 24 "                                                                                   |                               |                  | 54.2 (93.9) PSF               | 78.1 PSF                   | 54.2 (93.9) PSF               | 78.1 PSF                   | 54.2 (65.9) PSF               | 52.0 PSF                   | 54.2 (65.9) PSF               | 52.0 PSF                   | 360.40 LB-FT                                                               | 302.9 LB               | 1111.4 LB               | 867.5 LB                 |
| 30 "                                                                                   |                               |                  | 54.2 (81.3) PSF               | 64.2 PSF                   | 54.2 (81.3) PSF               | 64.2 PSF                   | 54.2 (54.2) PSF               | 42.8 PSF                   | 54.2 (54.2) PSF               | 42.8 PSF                   | 360.40 LB-FT                                                               | 249.0 LB               | 995.3 LB                | 808.1 LB                 |

DESIGN  
SCHEDULE NOTES:

1. MAXIMUM CALCULATED FACE AREA SHALL BE EQUAL TO OR LESS THAN THE MAXIMUM ALLOWABLE FACE AREA FOR EACH CONFIGURATION.
2. REFERENCE ANCHOR SCHEDULE FOR ANCHOR TYPES LISTED HEREIN.

42" STAND DEPTH MINIMUM: MAX FACE AREA (3600in² - 12600in²), FRAME QUANTITY (5-8 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | LOAD TRANSFER INFORMATION FOR USE WITH HOST<br>STRUCTURE VERIFICATION ONLY |                            |                               |                            |
|--------------------------|-------------------------------|------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|----------------------------------------------------------------------------|----------------------------|-------------------------------|----------------------------|
|                          |                               |                  | MAX FACE AREA : 8 FRAMES      |                            |                               |                            | MAX FACE AREA : 7 FRAMES      |                            |                               |                            | MAX FACE AREA : 6 FRAMES      |                            |                               |                            | MAX FACE AREA : 5 FRAMES                                                   |                            |                               |                            |
|                          |                               |                  | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4                                                        |                            | ANCHORS TYPE: 2 OR 3          |                            |
|                          |                               |                  | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD                                              | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |
| 18 "                     | 30 "                          | 3600 in²         | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 193.1 PSF                     | 152.4 PSF                  | 193.1 PSF                     | 152.4 PSF                  | 165.5 PSF                     | 130.6 PSF                  | 165.5 PSF                     | 130.6 PSF                  | 137.9 PSF                                                                  | 108.9 PSF                  | 137.9 PSF                     | 108.9 PSF                  |
| 24 "                     |                               |                  | 172.6 PSF                     | 136.3 PSF                  | 172.6 PSF                     | 136.3 PSF                  | 151.0 PSF                     | 119.2 PSF                  | 151.0 PSF                     | 119.2 PSF                  | 129.5 PSF                     | 102.2 PSF                  | 129.5 PSF                     | 102.2 PSF                  | 107.9 PSF                                                                  | 85.2 PSF                   | 107.9 PSF                     | 85.2 PSF                   |
| 30 "                     |                               |                  | 142.2 PSF                     | 112.3 PSF                  | 142.2 PSF                     | 112.3 PSF                  | 124.4 PSF                     | 98.2 PSF                   | 124.4 PSF                     | 98.2 PSF                   | 106.7 PSF                     | 84.2 PSF                   | 106.7 PSF                     | 84.2 PSF                   | 88.9 PSF                                                                   | 70.1 PSF                   | 88.9 PSF                      | 70.1 PSF                   |
| 18 "                     | 40 "                          | 6000 in²         | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 118.5 PSF                     | 93.6 PSF                   | 118.5 PSF                     | 93.6 PSF                   | 101.6 PSF                     | 80.2 PSF                   | 101.6 PSF                     | 80.2 PSF                   | 84.6 PSF                                                                   | 66.8 PSF                   | 84.6 PSF                      | 66.8 PSF                   |
| 24 "                     |                               |                  | 106.0 PSF                     | 83.6 PSF                   | 106.0 PSF                     | 83.6 PSF                   | 92.7 PSF                      | 73.2 PSF                   | 92.7 PSF                      | 73.2 PSF                   | 79.5 PSF                      | 62.7 PSF                   | 79.5 PSF                      | 62.7 PSF                   | 66.2 PSF                                                                   | 52.3 PSF                   | 66.2 PSF                      | 52.3 PSF                   |
| 30 "                     |                               |                  | 87.3 PSF                      | 68.9 PSF                   | 87.3 PSF                      | 68.9 PSF                   | 76.4 PSF                      | 60.3 PSF                   | 76.4 PSF                      | 60.3 PSF                   | 65.5 PSF                      | 51.7 PSF                   | 65.5 PSF                      | 51.7 PSF                   | 54.5 PSF                                                                   | 43.0 PSF                   | 54.5 PSF                      | 43.0 PSF                   |
| 18 "                     | 50 "                          | 9000 in²         | 83.1 (91.6) PSF               | 72.3 PSF                   | 83.1 (91.6) PSF               | 72.3 PSF                   | 80.1 PSF                      | 63.2 PSF                   | 80.1 PSF                      | 63.2 PSF                   | 68.7 PSF                      | 54.2 PSF                   | 68.7 PSF                      | 54.2 PSF                   | 57.2 PSF                                                                   | 45.2 PSF                   | 57.2 PSF                      | 45.2 PSF                   |
| 24 "                     |                               |                  | 71.6 PSF                      | 56.5 PSF                   | 71.6 PSF                      | 56.5 PSF                   | 62.7 PSF                      | 49.5 PSF                   | 62.7 PSF                      | 49.5 PSF                   | 53.7 PSF                      | 42.4 PSF                   | 53.7 PSF                      | 42.4 PSF                   | 44.7 PSF                                                                   | 35.3 PSF                   | 44.7 PSF                      | 35.3 PSF                   |
| 30 "                     |                               |                  | 59.0 PSF                      | 46.6 PSF                   | 59.0 PSF                      | 46.6 PSF                   | 51.6 PSF                      | 40.7 PSF                   | 51.6 PSF                      | 40.7 PSF                   | 44.2 PSF                      | 34.9 PSF                   | 44.2 PSF                      | 34.9 PSF                   | 36.9 PSF                                                                   | 29.1 PSF                   | 36.9 PSF                      | 29.1 PSF                   |
| 18 "                     | 60 "                          | 12600 in²        | 59.2 (66) PSF                 | 52.1 PSF                   | 59.2 (66) PSF                 | 52.1 PSF                   | 57.8 PSF                      | 45.6 PSF                   | 57.8 PSF                      | 45.6 PSF                   | 49.5 PSF                      | 39.1 PSF                   | 49.5 PSF                      | 39.1 PSF                   | 41.2 PSF                                                                   | 32.5 PSF                   | 41.2 PSF                      | 32.5 PSF                   |
| 24 "                     |                               |                  | 51.6 PSF                      | 40.8 PSF                   | 51.6 PSF                      | 40.8 PSF                   | 45.2 PSF                      | 35.7 PSF                   | 45.2 PSF                      | 35.7 PSF                   | 38.7 PSF                      | 30.6 PSF                   | 38.7 PSF                      | 30.6 PSF                   | 32.3 PSF                                                                   | 25.5 PSF                   | 32.3 PSF                      | 25.5 PSF                   |
| 30 "                     |                               |                  | 42.5 PSF                      | 33.6 PSF                   | 42.5 PSF                      | 33.6 PSF                   | 37.2 PSF                      | 29.4 PSF                   | 37.2 PSF                      | 29.4 PSF                   | 31.9 PSF                      | 25.2 PSF                   | 31.9 PSF                      | 25.2 PSF                   | 26.6 PSF                                                                   | 21.0 PSF                   | 26.6 PSF                      | 21.0 PSF                   |

42" STAND DEPTH MINIMUM: MAX FACE AREA (2880in² - 10080in²), FRAME QUANTITY (4-7 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | LOAD TRANSFER INFORMATION FOR USE WITH HOST<br>STRUCTURE VERIFICATION ONLY |                            |                               |                            |
|--------------------------|-------------------------------|------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|----------------------------------------------------------------------------|----------------------------|-------------------------------|----------------------------|
|                          |                               |                  | MAX FACE AREA : 7 FRAMES      |                            |                               |                            | MAX FACE AREA : 6 FRAMES      |                            |                               |                            | MAX FACE AREA : 5 FRAMES      |                            |                               |                            | MAX FACE AREA : 4 FRAMES                                                   |                            |                               |                            |
|                          |                               |                  | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4                                                        |                            | ANCHORS TYPE: 2 OR 3          |                            |
|                          |                               |                  | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD                                              | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |
| 18 "                     | 30 "                          | 2880 in²         | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 172.4 PSF                     | 136.1 PSF                  | 172.4 PSF                     | 136.1 PSF                  | 137.9 PSF                                                                  | 108.9 PSF                  | 137.9 PSF                     | 108.9 PSF                  |
| 24 "                     |                               |                  | 188.8 PSF                     | 149.1 PSF                  | 188.8 PSF                     | 149.1 PSF                  | 161.8 PSF                     | 127.8 PSF                  | 161.8 PSF                     | 127.8 PSF                  | 134.9 PSF                     | 106.5 PSF                  | 134.9 PSF                     | 106.5 PSF                  | 107.9 PSF                                                                  | 85.2 PSF                   | 107.9 PSF                     | 85.2 PSF                   |
| 30 "                     |                               |                  | 155.6 PSF                     | 122.8 PSF                  | 155.6 PSF                     | 122.8 PSF                  | 133.3 PSF                     | 105.2 PSF                  | 133.3 PSF                     | 105.2 PSF                  | 111.1 PSF                     | 87.7 PSF                   | 111.1 PSF                     | 87.7 PSF                   | 88.9 PSF                                                                   | 70.1 PSF                   | 88.9 PSF                      | 70.1 PSF                   |
| 18 "                     | 40 "                          | 4800 in²         | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 105.8 PSF                     | 83.5 PSF                   | 105.8 PSF                     | 83.5 PSF                   | 84.6 PSF                                                                   | 66.8 PSF                   | 84.6 PSF                      | 66.8 PSF                   |
| 24 "                     |                               |                  | 115.9 PSF                     | 91.5 PSF                   | 115.9 PSF                     | 91.5 PSF                   | 99.3 PSF                      | 78.4 PSF                   | 99.3 PSF                      | 78.4 PSF                   | 82.8 PSF                      | 65.3 PSF                   | 82.8 PSF                      | 65.3 PSF                   | 66.2 PSF                                                                   | 52.3 PSF                   | 66.2 PSF                      | 52.3 PSF                   |
| 30 "                     |                               |                  | 95.5 PSF                      | 75.4 PSF                   | 95.5 PSF                      | 75.4 PSF                   | 81.8 PSF                      | 64.6 PSF                   | 81.8 PSF                      | 64.6 PSF                   | 68.2 PSF                      | 53.8 PSF                   | 68.2 PSF                      | 53.8 PSF                   | 54.5 PSF                                                                   | 43.0 PSF                   | 54.5 PSF                      | 43.0 PSF                   |
| 18 "                     | 50 "                          | 7200 in²         | 83.1 (100.2) PSF              | 79.1 PSF                   | 83.1 (100.2) PSF              | 79.1 PSF                   | 83.1 (85.8) PSF               | 67.8 PSF                   | 83.1 (85.8) PSF               | 67.8 PSF                   | 71.5 PSF                      | 56.5 PSF                   | 71.5 PSF                      | 56.5 PSF                   | 57.2 PSF                                                                   | 45.2 PSF                   | 57.2 PSF                      | 45.2 PSF                   |
| 24 "                     |                               |                  | 78.3 PSF                      | 61.8 PSF                   | 78.3 PSF                      | 61.8 PSF                   | 67.1 PSF                      | 53.0 PSF                   | 67.1 PSF                      | 53.0 PSF                   | 55.9 PSF                      | 44.2 PSF                   | 55.9 PSF                      | 44.2 PSF                   | 44.7 PSF                                                                   | 35.3 PSF                   | 44.7 PSF                      | 35.3 PSF                   |
| 30 "                     |                               |                  | 64.5 PSF                      | 50.9 PSF                   | 64.5 PSF                      | 50.9 PSF                   | 55.3 PSF                      | 43.7 PSF                   | 55.3 PSF                      | 43.7 PSF                   | 46.1 PSF                      | 36.4 PSF                   | 46.1 PSF                      | 36.4 PSF                   | 36.9 PSF                                                                   | 29.1 PSF                   | 36.9 PSF                      | 29.1 PSF                   |
| 18 "                     | 60 "                          | 10080 in²        | 59.2 (72.2) PSF               | 57.0 PSF                   | 59.2 (72.2) PSF               | 57.0 PSF                   | 59.2 (61.9) PSF               | 48.8 PSF                   | 59.2 (61.9) PSF               | 48.8 PSF                   | 51.6 PSF                      | 40.7 PSF                   | 51.6 PSF                      | 40.7 PSF                   | 41.2 PSF                                                                   | 32.5 PSF                   | 41.2 PSF                      | 32.5 PSF                   |
| 24 "                     |                               |                  | 56.5 PSF                      | 44.6 PSF                   | 56.5 PSF                      | 44.6 PSF                   | 48.4 PSF                      | 38.2 PSF                   | 48.4 PSF                      | 38.2 PSF                   | 40.3 PSF                      | 31.8 PSF                   | 40.3 PSF                      | 31.8 PSF                   | 32.3 PSF                                                                   | 25.5 PSF                   | 32.3 PSF                      | 25.5 PSF                   |
| 30 "                     |                               |                  | 46.5 PSF                      | 36.7 PSF                   | 46.5 PSF                      | 36.7 PSF                   | 39.9 PSF                      | 31.5 PSF                   | 39.9 PSF                      | 31.5 PSF                   | 33.2 PSF                      | 26.2 PSF                   | 33.2 PSF                      | 26.2 PSF                   | 26.6 PSF                                                                   | 21.0 PSF                   | 26.6 PSF                      | 21.0 PSF                   |

42" STAND DEPTH MINIMUM: MAX FACE AREA (2160in² - 7560in²), FRAME QUANTITY (3-6 FRAMES)

| 42" STAND DEPTH MINIMUM: MAX FACE AREA (2160in <sup>2</sup> - 7560in <sup>2</sup> ), FRAME QUANTITY (3-6 FRAMES) |                      |                      |                            |                      |                            |                      |                            |                      |                            |                      |                            |                      |                            |                      |                            |                      |                            |                      | LOAD TRANSFER INFORMATION FOR USE WITH HOST STRUCTURE VERIFICATION ONLY |                     |                      |                       |
|------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|-------------------------------------------------------------------------|---------------------|----------------------|-----------------------|
| STAND CLEAR HEIGHT                                                                                               | MAX MEAN UNIT HEIGHT | MAX FACE AREA        | UNIT TO FRAME RATIO        |                      |                            |                      |                            |                      |                            |                      |                            |                      |                            |                      |                            |                      |                            |                      | MAX. BASE MOMENT (M)                                                    | MAX. BASE SHEAR (V) | MAX. BASE UPLIFT (T) | MAX. BASE GRAVITY (C) |
|                                                                                                                  |                      |                      | MAX FACE AREA : 6 FRAMES   |                      |                            |                      | MAX FACE AREA : 5 FRAMES   |                      |                            |                      | MAX FACE AREA : 4 FRAMES   |                      |                            |                      | MAX FACE AREA : 3 FRAMES   |                      |                            |                      |                                                                         |                     |                      |                       |
|                                                                                                                  |                      |                      | ANCHOR TYPE: 1 OR 4        |                      | ANCHORS TYPE: 2 OR 3       |                      | ANCHOR TYPE: 1 OR 4        |                      | ANCHORS TYPE: 2 OR 3       |                      | ANCHOR TYPE: 1 OR 4        |                      | ANCHORS TYPE: 2 OR 3       |                      | ANCHOR TYPE: 1 OR 4        |                      | ANCHORS TYPE: 2 OR 3       |                      |                                                                         |                     |                      |                       |
|                                                                                                                  |                      |                      | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT |                                                                         |                     |                      |                       |
| 18 "                                                                                                             | 30 "                 | 2160 in <sup>2</sup> | 198.0 PSF                  | 156.3 PSF            | 198.0 PSF                  | 156.3 PSF            | 198.0 PSF                  | 156.3 PSF            | 198.0 PSF                  | 156.3 PSF            | 183.9 PSF                  | 145.2 PSF            | 183.9 PSF                  | 145.2 PSF            | 137.9 PSF                  | 108.9 PSF            | 137.9 PSF                  | 108.9 PSF            |                                                                         |                     |                      |                       |
| 24 "                                                                                                             |                      |                      | 198.0 PSF                  | 156.3 PSF            | 198.0 PSF                  | 156.3 PSF            | 179.8 PSF                  | 142.0 PSF            | 179.8 PSF                  | 142.0 PSF            | 143.9 PSF                  | 113.6 PSF            | 143.9 PSF                  | 113.6 PSF            | 107.9 PSF                  | 85.2 PSF             | 107.9 PSF                  | 85.2 PSF             |                                                                         |                     |                      |                       |
| 30 "                                                                                                             |                      |                      | 177.8 PSF                  | 140.3 PSF            | 177.8 PSF                  | 140.3 PSF            | 148.1 PSF                  | 116.9 PSF            | 148.1 PSF                  | 116.9 PSF            | 118.5 PSF                  | 93.5 PSF             | 118.5 PSF                  | 93.5 PSF             | 108.9 PSF                  | 70.1 PSF             | 108.9 PSF                  | 70.1 PSF             |                                                                         |                     |                      |                       |
| 18 "                                                                                                             | 40 "                 | 3600 in <sup>2</sup> | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 112.9 PSF                  | 89.1 PSF             | 112.9 PSF                  | 89.1 PSF             | 84.6 PSF                   | 66.8 PSF             | 84.6 PSF                   | 66.8 PSF             |                                                                         |                     |                      |                       |
| 24 "                                                                                                             |                      |                      | 125.0 PSF                  | 98.6 PSF             | 125.0 PSF                  | 98.6 PSF             | 110.4 PSF                  | 87.1 PSF             | 110.4 PSF                  | 87.1 PSF             | 88.3 PSF                   | 69.7 PSF             | 88.3 PSF                   | 69.7 PSF             | 66.2 PSF                   | 52.3 PSF             | 66.2 PSF                   | 52.3 PSF             |                                                                         |                     |                      |                       |
| 30 "                                                                                                             |                      |                      | 109.1 PSF                  | 86.1 PSF             | 109.1 PSF                  | 86.1 PSF             | 90.9 PSF                   | 71.8 PSF             | 90.9 PSF                   | 71.8 PSF             | 72.7 PSF                   | 57.4 PSF             | 72.7 PSF                   | 57.4 PSF             | 54.5 PSF                   | 43.0 PSF             | 54.5 PSF                   | 43.0 PSF             |                                                                         |                     |                      |                       |
| 18 "                                                                                                             | 50 "                 | 5400 in <sup>2</sup> | 83.1 (114.5) PSF           | 90.4 PSF             | 83.1 (114.5) PSF           | 90.4 PSF             | 83.1 (95.4) PSF            | 75.3 PSF             | 83.1 (95.4) PSF            | 75.3 PSF             | 76.3 PSF                   | 60.2 PSF             | 76.3 PSF                   | 60.2 PSF             | 57.2 PSF                   | 45.2 PSF             | 57.2 PSF                   | 45.2 PSF             |                                                                         |                     |                      |                       |
| 24 "                                                                                                             |                      |                      | 83.1 (89.5) PSF            | 70.7 PSF             | 83.1 (89.5) PSF            | 70.7 PSF             | 74.6 PSF                   | 58.9 PSF             | 74.6 PSF                   | 58.9 PSF             | 59.7 PSF                   | 47.1 PSF             | 59.7 PSF                   | 47.1 PSF             | 35.3 PSF                   | 44.7 PSF             | 35.3 PSF                   | 44.7 PSF             |                                                                         |                     |                      |                       |
| 30 "                                                                                                             |                      |                      | 73.8 PSF                   | 58.2 PSF             | 73.8 PSF                   | 58.2 PSF             | 61.5 PSF                   | 48.5 PSF             | 61.5 PSF                   | 48.5 PSF             | 49.2 PSF                   | 38.8 PSF             | 49.2 PSF                   | 38.8 PSF             | 36.9 PSF                   | 29.1 PSF             | 36.9 PSF                   | 29.1 PSF             |                                                                         |                     |                      |                       |
| 18 "                                                                                                             | 60 "                 | 7560 in <sup>2</sup> | 59.2 (82.5) PSF            | 65.1 PSF             | 59.2 (82.5) PSF            | 65.1 PSF             | 59.2 (68.8) PSF            | 54.3 PSF             | 59.2 (68.8) PSF            | 54.3 PSF             | 55.0 PSF                   | 43.4 PSF             | 55.0 PSF                   | 43.4 PSF             | 41.2 PSF                   | 32.5 PSF             | 41.2 PSF                   | 32.5 PSF             |                                                                         |                     |                      |                       |
| 24 "                                                                                                             |                      |                      | 59.2 (64.6) PSF            | 51.0 PSF             | 59.2 (64.6) PSF            | 51.0 PSF             | 53.8 PSF                   | 42.5 PSF             | 53.8 PSF                   | 42.5 PSF             | 43.0 PSF                   | 34.0 PSF             | 43.0 PSF                   | 34.0 PSF             | 32.3 PSF                   | 25.5 PSF             | 32.3 PSF                   | 25.5 PSF             |                                                                         |                     |                      |                       |
| 30 "                                                                                                             |                      |                      | 53.2 PSF                   | 42.0 PSF             | 53.2 PSF                   | 42.0 PSF             | 44.3 PSF                   | 35.0 PSF             | 44.3 PSF                   | 35.0 PSF             | 35.4 PSF                   | 28.0 PSF             | 35.4 PSF                   | 28.0 PSF             | 26.6 PSF                   | 21.0 PSF             | 26.6 PSF                   | 21.0 PSF             |                                                                         |                     |                      |                       |

"HD" STAND DESIGN SCHEDULE CONTINUED

42" STAND DEPTH MINIMUM: MAX FACE AREA (1440in<sup>2</sup> - 5040in<sup>2</sup>), FRAME QUANTITY (2-5 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA     | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|----------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                      | MAX FACE AREA : 5 FRAMES      |                            |                               |                            | MAX FACE AREA : 4 FRAMES      |                            |                               |                            | MAX FACE AREA : 3 FRAMES      |                            |                               |                            | MAX FACE AREA : 2 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                      | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHORS TYPE: 2 OR 3          |                            |                         |                        |                         |                          |
|                          |                               |                      | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 1440 in <sup>2</sup> | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 137.9 PSF                     | 108.9 PSF                  | 137.9 PSF                     | 108.9 PSF                  | 360.40 LB-FT            | 379.3 LB               | 845.6 LB                | 567.5 LB                 |
| 24 "                     |                               |                      | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 161.8 PSF                     | 127.8 PSF                  | 161.8 PSF                     | 127.8 PSF                  | 107.9 PSF                     | 85.2 PSF                   | 107.9 PSF                     | 85.2 PSF                   | 360.40 LB-FT            | 296.7 LB               | 749.0 LB                | 558.1 LB                 |
| 30 "                     |                               |                      | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 177.8 PSF                     | 140.3 PSF                  | 177.8 PSF                     | 140.3 PSF                  | 133.3 PSF                     | 105.2 PSF                  | 133.3 PSF                     | 105.2 PSF                  | 88.9 PSF                      | 70.1 PSF                   | 88.9 PSF                      | 70.1 PSF                   | 360.40 LB-FT            | 244.5 LB               | 688.0 LB                | 553.5 LB                 |
| 18 "                     | 40 "                          | 2400 in <sup>2</sup> | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 84.6 PSF                      | 66.8 PSF                   | 84.6 PSF                      | 66.8 PSF                   | 360.40 LB-FT            | 379.3 LB               | 927.0 LB                | 666.7 LB                 |
| 24 "                     |                               |                      | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 99.3 PSF                      | 78.4 PSF                   | 99.3 PSF                      | 78.4 PSF                   | 66.2 PSF                      | 52.3 PSF                   | 66.2 PSF                      | 52.3 PSF                   | 360.40 LB-FT            | 296.7 LB               | 812.7 LB                | 635.7 LB                 |
| 30 "                     |                               |                      | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 109.1 PSF                     | 86.1 PSF                   | 109.1 PSF                     | 86.1 PSF                   | 81.8 PSF                      | 64.6 PSF                   | 81.8 PSF                      | 64.6 PSF                   | 54.5 PSF                      | 43.0 PSF                   | 54.5 PSF                      | 43.0 PSF                   | 360.40 LB-FT            | 244.5 LB               | 740.5 LB                | 617.4 LB                 |
| 18 "                     | 50 "                          | 3600 in <sup>2</sup> | 83.1 (122.8) PSF              | 113.0 PSF                  | 83.1 (122.8) PSF              | 113.0 PSF                  | 83.1 (114.5) PSF              | 90.4 PSF                   | 83.1 (114.5) PSF              | 90.4 PSF                   | 83.1 (85.8) PSF               | 67.8 PSF                   | 83.1 (85.8) PSF               | 67.8 PSF                   | 57.2 PSF                      | 45.2 PSF                   | 57.2 PSF                      | 45.2 PSF                   | 360.40 LB-FT            | 379.3 LB               | 1025.4 LB               | 762.5 LB                 |
| 24 "                     |                               |                      | 83.1 (111.9) PSF              | 88.4 PSF                   | 83.1 (111.9) PSF              | 88.4 PSF                   | 83.1 (89.5) PSF               | 70.7 PSF                   | 83.1 (89.5) PSF               | 70.7 PSF                   | 67.1 PSF                      | 53.0 PSF                   | 67.1 PSF                      | 53.0 PSF                   | 44.7 PSF                      | 35.3 PSF                   | 44.7 PSF                      | 35.3 PSF                   | 360.40 LB-FT            | 296.7 LB               | 885.0 LB                | 710.7 LB                 |
| 30 "                     |                               |                      | 83.1 (92.2) PSF               | 72.8 PSF                   | 83.1 (92.2) PSF               | 72.8 PSF                   | 73.8 PSF                      | 58.2 PSF                   | 73.8 PSF                      | 58.2 PSF                   | 55.3 PSF                      | 43.7 PSF                   | 55.3 PSF                      | 43.7 PSF                   | 36.9 PSF                      | 29.1 PSF                   | 36.9 PSF                      | 29.1 PSF                   | 360.40 LB-FT            | 244.5 LB               | 797.4 LB                | 679.2 LB                 |
| 18 "                     | 60 "                          | 5040 in <sup>2</sup> | 59.2 (98.9) PSF               | 81.4 PSF                   | 59.2 (98.9) PSF               | 81.4 PSF                   | 59.2 (82.5) PSF               | 65.1 PSF                   | 59.2 (82.5) PSF               | 65.1 PSF                   | 59.2 (61.9) PSF               | 48.8 PSF                   | 59.2 (61.9) PSF               | 48.8 PSF                   | 41.2 PSF                      | 32.5 PSF                   | 41.2 PSF                      | 32.5 PSF                   | 360.40 LB-FT            | 379.3 LB               | 1111.9 LB               | 856.6 LB                 |
| 24 "                     |                               |                      | 59.2 (80.7) PSF               | 63.7 PSF                   | 59.2 (80.7) PSF               | 63.7 PSF                   | 59.2 (64.6) PSF               | 51.0 PSF                   | 59.2 (64.6) PSF               | 51.0 PSF                   | 48.4 PSF                      | 38.2 PSF                   | 48.4 PSF                      | 38.2 PSF                   | 32.3 PSF                      | 25.5 PSF                   | 32.3 PSF                      | 25.5 PSF                   | 360.40 LB-FT            | 296.7 LB               | 952.8 LB                | 784.3 LB                 |
| 30 "                     |                               |                      | 59.2 (66.5) PSF               | 52.5 PSF                   | 59.2 (66.5) PSF               | 52.5 PSF                   | 53.2 PSF                      | 42.0 PSF                   | 53.2 PSF                      | 42.0 PSF                   | 39.9 PSF                      | 31.5 PSF                   | 39.9 PSF                      | 31.5 PSF                   | 26.6 PSF                      | 21.0 PSF                   | 26.6 PSF                      | 21.0 PSF                   | 360.40 LB-FT            | 244.5 LB               | 853.2 LB                | 739.8 LB                 |

42" STAND DEPTH MINIMUM: MAX FACE AREA (720in<sup>2</sup> - 2520in<sup>2</sup>), FRAME QUANTITY (2-3 FRAMES)

| STAND<br>CLEAR<br>HEIGHT | MAX<br>MEAN<br>UNIT<br>HEIGHT | MAX FACE<br>AREA     | UNIT TO FRAME RATIO           |                            |                               |                            |                               |                            |                               |                            | MAX. BASE<br>MOMENT (M) | MAX. BASE<br>SHEAR (V) | MAX. BASE<br>UPLIFT (T) | MAX. BASE<br>GRAVITY (C) |
|--------------------------|-------------------------------|----------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-------------------------|--------------------------|
|                          |                               |                      | MAX FACE AREA : 3 FRAMES      |                            |                               |                            | MAX FACE AREA : 2 FRAMES      |                            |                               |                            |                         |                        |                         |                          |
|                          |                               |                      | ANCHOR TYPE: 1 OR 4           |                            | ANCHOR TYPE: 2 OR 3           |                            | ANCHOR TYPE: 1 OR 4           |                            | ANCHOR TYPE: 2 OR 3           |                            |                         |                        |                         |                          |
|                          |                               |                      | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT | MAX ALLOWABLE<br>LATERAL LOAD | MAX<br>ALLOWABLE<br>UPLIFT |                         |                        |                         |                          |
| 18 "                     | 30 "                          | 720 in <sup>2</sup>  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 258.70 LB-FT            | 272.3 LB               | 611.9 LB                | 377.9 LB                 |
| 24 "                     |                               |                      | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 330.70 LB-FT            | 272.3 LB               | 689.7 LB                | 455.7 LB                 |
| 30 "                     |                               |                      | 198.0 PSF                     | 156.3 PSF                  | 198.0 PSF                     | 156.3 PSF                  | 177.8 PSF                     | 140.3 PSF                  | 177.8 PSF                     | 140.3 PSF                  | 360.40 LB-FT            | 244.5 LB               | 688.0 LB                | 486.0 LB                 |
| 18 "                     | 40 "                          | 1200 in <sup>2</sup> | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 266.00 LB-FT            | 279.9 LB               | 689.5 LB                | 459.9 LB                 |
| 24 "                     |                               |                      | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 340.00 LB-FT            | 279.9 LB               | 769.5 LB                | 539.8 LB                 |
| 30 "                     |                               |                      | 125.0 PSF                     | 98.6 PSF                   | 125.0 PSF                     | 98.6 PSF                   | 109.1 PSF                     | 86.1 PSF                   | 109.1 PSF                     | 86.1 PSF                   | 360.40 LB-FT            | 244.5 LB               | 740.5 LB                | 549.9 LB                 |
| 18 "                     | 50 "                          | 1800 in <sup>2</sup> | 83.1 (122.8) PSF              | 119.0 PSF                  | 83.1 (122.8) PSF              | 119.0 PSF                  | 83.1 (114.5) PSF              | 90.4 PSF                   | 83.1 (114.5) PSF              | 90.4 PSF                   | 360.40 LB-FT            | 379.3 LB               | 1023.1 LB               | 695.0 LB                 |
| 24 "                     |                               |                      | 83.1 (122.8) PSF              | 106.1 PSF                  | 83.1 (122.8) PSF              | 106.1 PSF                  | 83.1 (89.5) PSF               | 70.7 PSF                   | 83.1 (89.5) PSF               | 70.7 PSF                   | 360.40 LB-FT            | 296.7 LB               | 886.5 LB                | 643.2 LB                 |
| 30 "                     |                               |                      | 83.1 (110.7) PSF              | 87.4 PSF                   | 83.1 (110.7) PSF              | 87.4 PSF                   | 73.8 PSF                      | 58.2 PSF                   | 73.8 PSF                      | 58.2 PSF                   | 360.40 LB-FT            | 244.5 LB               | 798.9 LB                | 611.7 LB                 |
| 18 "                     | 60 "                          | 2520 in <sup>2</sup> | 59.2 (98.9) PSF               | 97.7 PSF                   | 59.2 (98.9) PSF               | 97.7 PSF                   | 59.2 (82.5) PSF               | 65.1 PSF                   | 59.2 (82.5) PSF               | 65.1 PSF                   | 360.40 LB-FT            | 379.3 LB               | 1113.4 LB               | 789.1 LB                 |
| 24 "                     |                               |                      | 59.2 (96.9) PSF               | 76.5 PSF                   | 59.2 (96.9) PSF               | 76.5 PSF                   | 59.2 (64.6) PSF               | 51.0 PSF                   | 59.2 (64.6) PSF               | 51.0 PSF                   | 360.40 LB-FT            | 296.7 LB               | 954.3 LB                | 716.8 LB                 |
| 30 "                     |                               |                      | 59.2 (79.8) PSF               | 63.0 PSF                   | 59.2 (79.8) PSF               | 63.0 PSF                   | 53.2 PSF                      | 42.0 PSF                   | 53.2 PSF                      | 42.0 PSF                   | 360.40 LB-FT            | 244.5 LB               | 854.7 LB                | 672.3 LB                 |

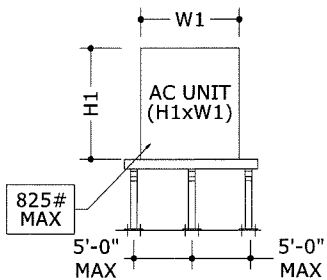
DESIGN SCHEDULE NOTES:

1. MAXIMUM CALCULATED FACE AREA SHALL BE EQUAL TO OR LESS THAN THE MAXIMUM ALLOWABLE FACE AREA FOR EACH CONFIGURATION.
2. REFERENCE ANCHOR SCHEDULE FOR ANCHOR TYPES LISTED HEREIN.

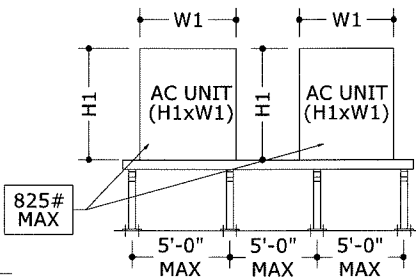
"CUSTOM ASSEMBLY" DESIGN SCHEDULE

CUSTOM ASSEMBLY ALLOWABLE CONFIGURATIONS:

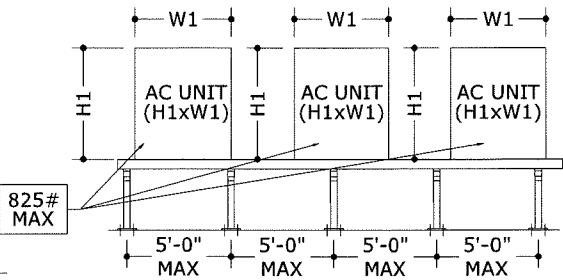
1 UNITS:3 FRAME CONFIGURATION



2 UNITS:4 FRAME CONFIGURATION



3 UNITS:5 FRAME CONFIGURATION

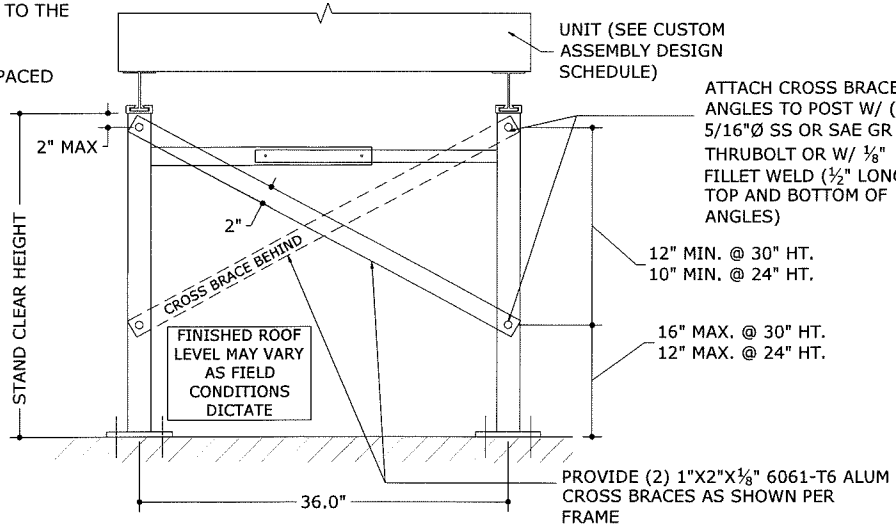


NOTE: FOR THE "CUSTOM ASSEMBLY" STANDS, THE NUMBER OF UNITS PER STAND IS RESTRICTED TO THE CONFIGURATIONS ILLUSTRATED ABOVE. SEE DESIGN SCHEDULE FOR MORE INFORMATION.

| MAX UNIT WIDTH | MAX UNIT DEPTH | MAX UNIT HEIGHT | STAND CLEAR HEIGHT | (1) UNITS TO (3) FRAMES    |                      |                            |                      | (2) UNITS TO (4) FRAMES    |                      |                            |                      | (3) UNITS TO (5) FRAMES    |                      |                            |                      |
|----------------|----------------|-----------------|--------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|
|                |                |                 |                    | ANCHOR TYPE: 1 OR 4        |                      | ANCHOR TYPE: 2 OR 3        |                      | ANCHOR TYPE: 1 OR 4        |                      | ANCHOR TYPE: 2 OR 3        |                      | ANCHOR TYPE: 1 OR 4        |                      | ANCHOR TYPE: 2 OR 3        |                      |
|                |                |                 |                    | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT | MAX ALLOWABLE LATERAL LOAD | MAX ALLOWABLE UPLIFT |
| 50 "           | 38 "           | 70 "            | 24 "               | 94.5 PSF                   | 74.6 PSF             | 94.5 PSF                   | 74.6 PSF             | 63.0 PSF                   | 49.7 PSF             | 63.0 PSF                   | 49.7 PSF             | 52.5 PSF                   | 41.4 PSF             | 52.5 PSF                   | 41.4 PSF             |
|                |                |                 | 30 "               | 79.5 PSF                   | 62.8 PSF             | 79.5 PSF                   | 62.8 PSF             | 53.0 PSF                   | 41.8 PSF             | 53.0 PSF                   | 41.8 PSF             | 44.3 PSF                   | 35.0 PSF             | 44.3 PSF                   | 35.0 PSF             |

CUSTOM ASSEMBLY NOTES:

1. EACH UNIT SHALL UTILIZE (4) TIE-DOWN STRAPS INSTALLED PER DETAIL 5/9 OF THIS DRAWING IN ADDITION TO THE TIE-DOWNS PER DETAIL 2/9 OR 3/9.
2. EACH FRAME (POST PAIR) SHALL UTILIZE THE CROSS BRACING PER DETAIL 1/8 ON THIS SHEET.
3. EACH STAND SHALL UTILIZE (3) SUPPORT ANGLES PER DETAIL 1A/10 OR 1B/10 OF THIS DRAWING EQUALLY SPACED ALONG LENGTH OF STAND (12" MINIMUM FROM ENDS OF STAND).



1 CROSS BRACE DETAIL - CUSTOM ASSEMBLY  
8 SCALE: NTS ELEVATION VIEW

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04/25/2018

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CERT OF AUTH #9885

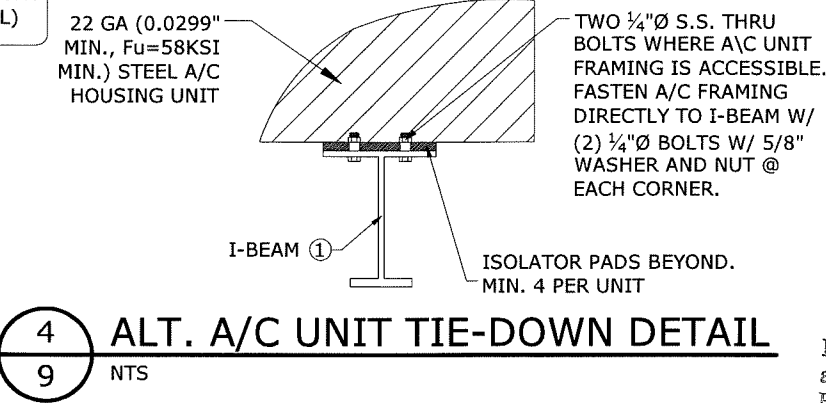
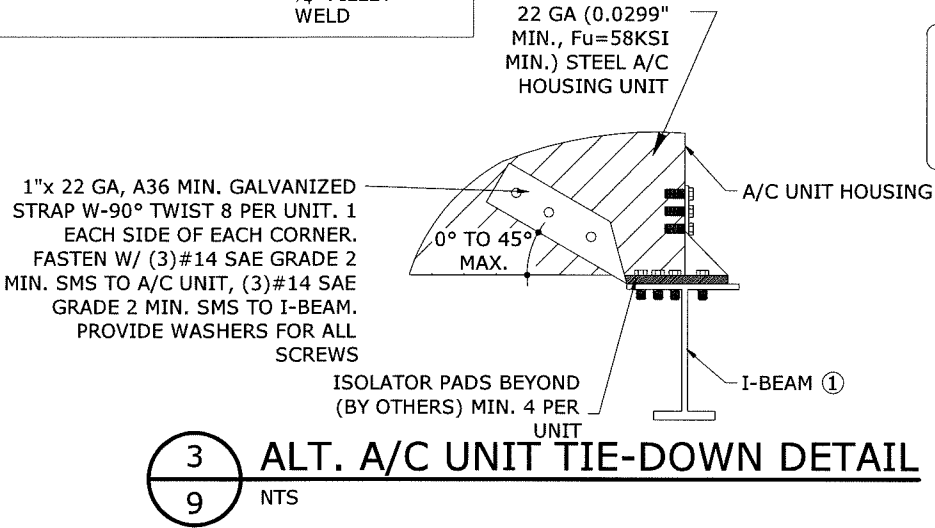
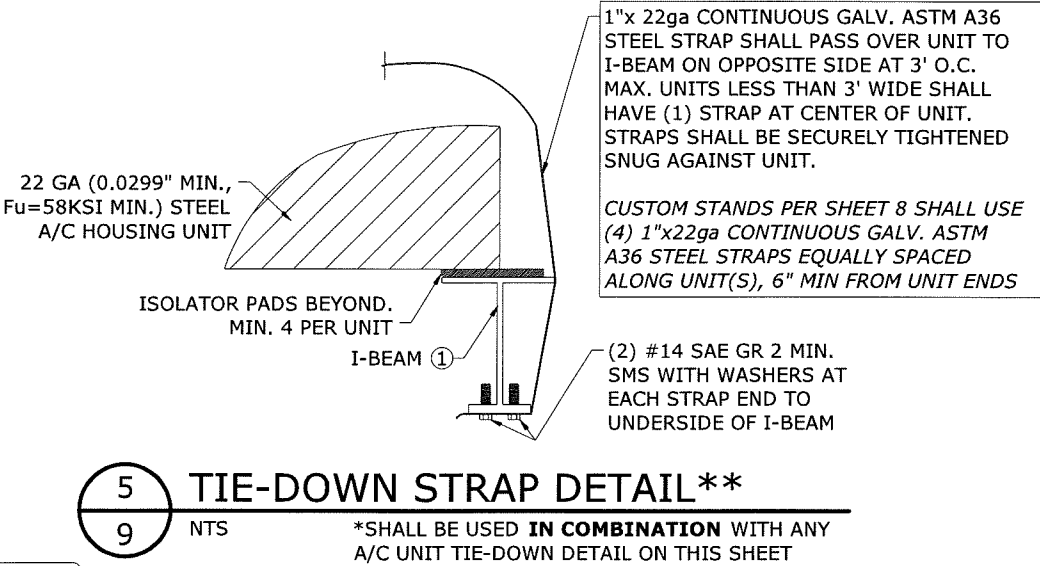
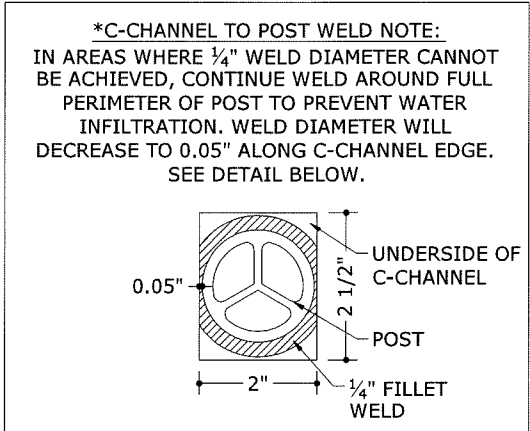
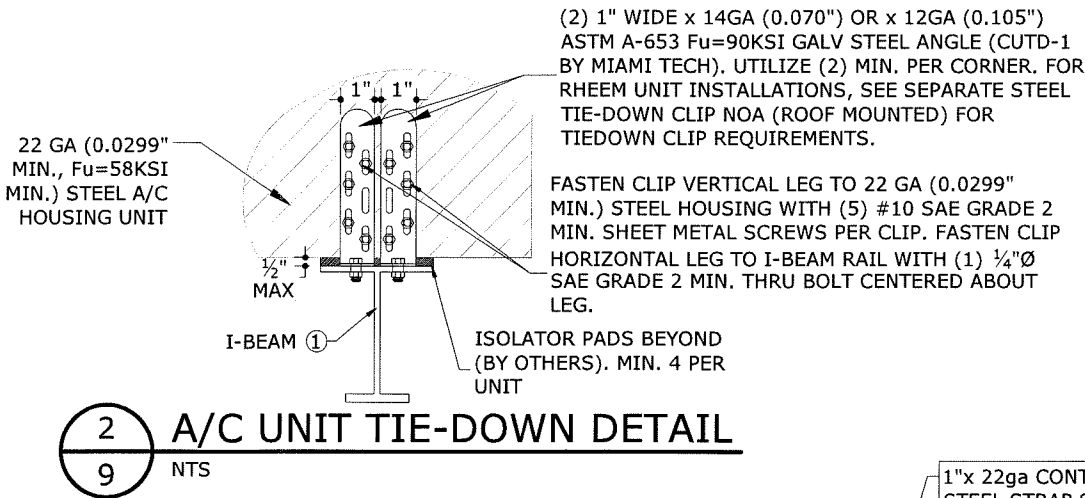
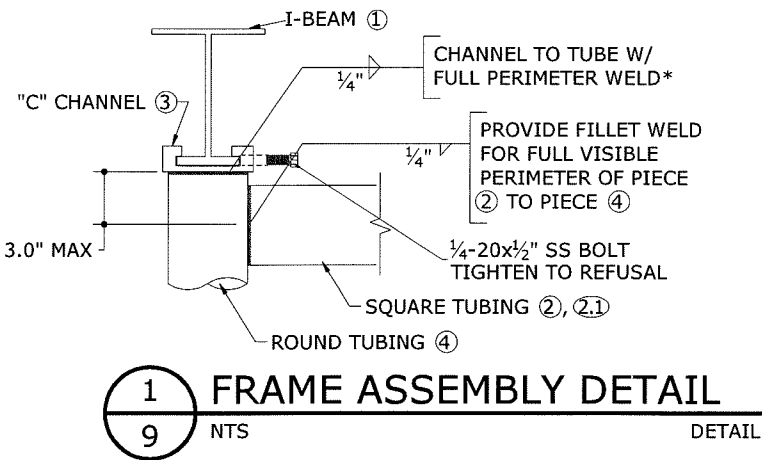
MIAMI TECH, INC  
3611 NW 74TH STREET  
MIAMI, FL 33147  
PHONE: (305) 693-7054 FAX: (305) 693-6125  
ALUMINUM A/C STAND  
HVHZ COMPLAINT

| DATE     | DRWN | CHKD | DATE     | DRWN | CHKD |
|----------|------|------|----------|------|------|
| 01/10/07 | KL   | CL   | 01/10/07 | KL   | CL   |
| 05/03/07 | KL   | CL   | 05/03/07 | KL   | CL   |
| 09/30/08 | TSB  | CL   | 09/30/08 | TSB  | CL   |
| 05/10/12 | CSL  | TSB  | 05/10/12 | CSL  | TSB  |
| 08/16/12 | CSL  | TSB  | 08/16/12 | CSL  | TSB  |
| 07/07/15 | RWN  | CSL  | 07/07/15 | RWN  | CSL  |
| 05/07/16 | RWN  | FLB  | 05/07/16 | RWN  | FLB  |
| 11/01/17 | RWN  | FLB  | 11/01/17 | RWN  | FLB  |

15-2476  
SCALE: NTS  
PAGE DESCRIPTION:  
COVER SHEET

10

FRAME ASSEMBLY & UNIT TIE-DOWN DETAILS:



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 17-1218.02  
Expiration Date 01/19/2024  
By   
Miami Dade Product Control

FRANK L. BENNARDO, P.E.  
# PE0046549  
04/25/2018  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

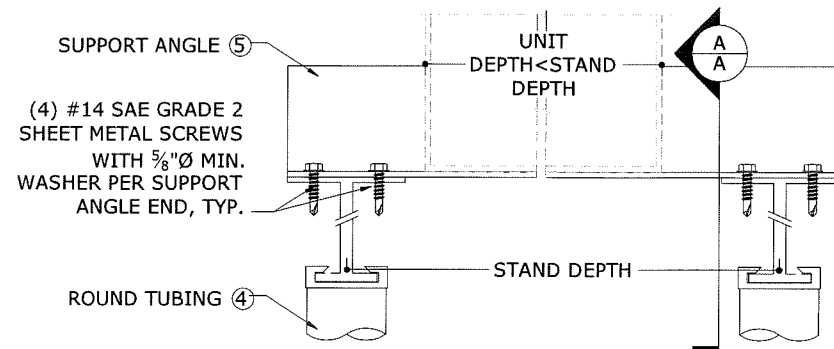
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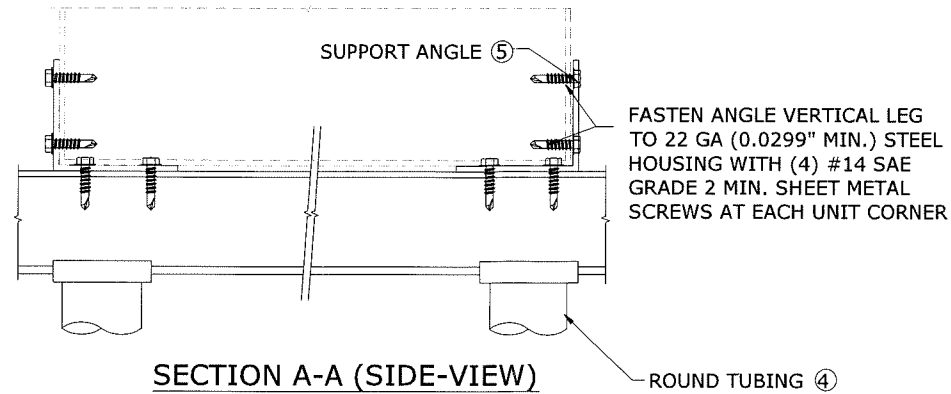
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| INIT ISSUE            | KL   | CL   | 01/10/07 |
| REV. TELESCOPIC BOLTS | KL   | CL   | 05/03/07 |
| UPDATE PER '07 FBC    | TSB  | CL   | 09/30/08 |
| UPDATE PER '10 FBC    | CSL  | TSB  | 05/10/12 |
| REV. PER COMMENTS     | CSL  | TSB  | 08/16/12 |
| FBC UPDATE            | RWN  | CSL  | 07/07/15 |
| REV PER MD COMMENTS   | RWN  | FLB  | 05/07/16 |
| REV - 2017 FBC        | RWN  | FLB  | 11/01/17 |

15-2476  
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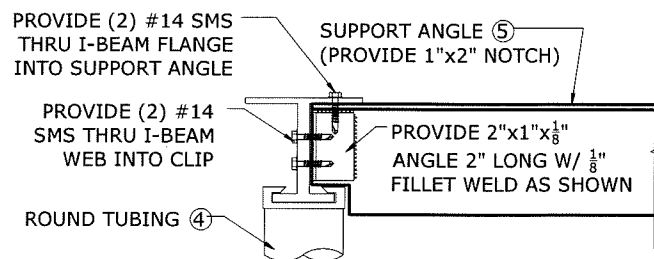
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04/25/2018 - 2:19pm rickn



1A  
10 NTS  
SUPPORT ANGLE ATTACHMENT DETAIL

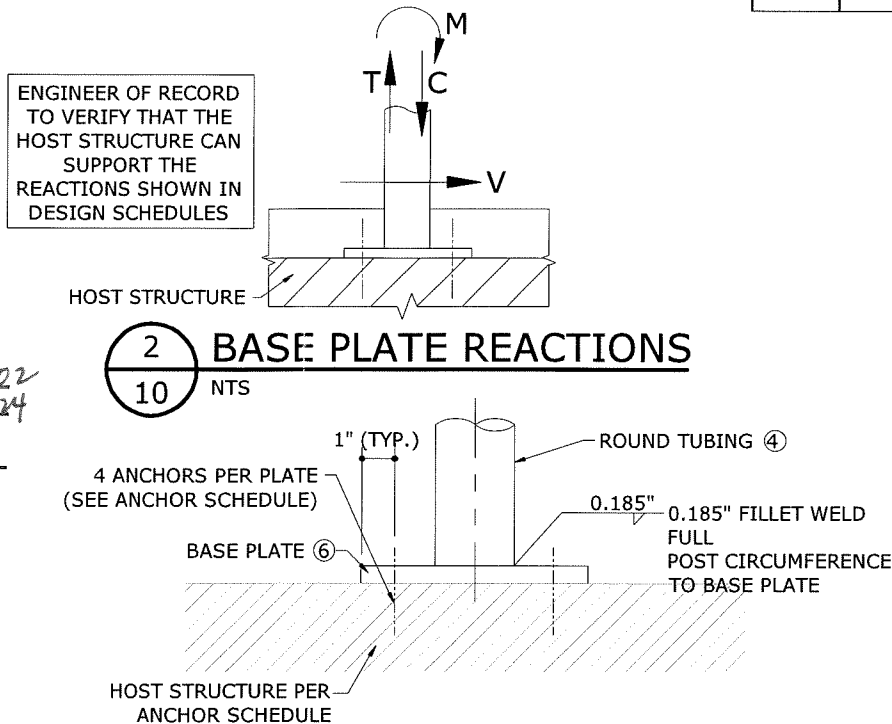


SECTION A-A (SIDE-VIEW)

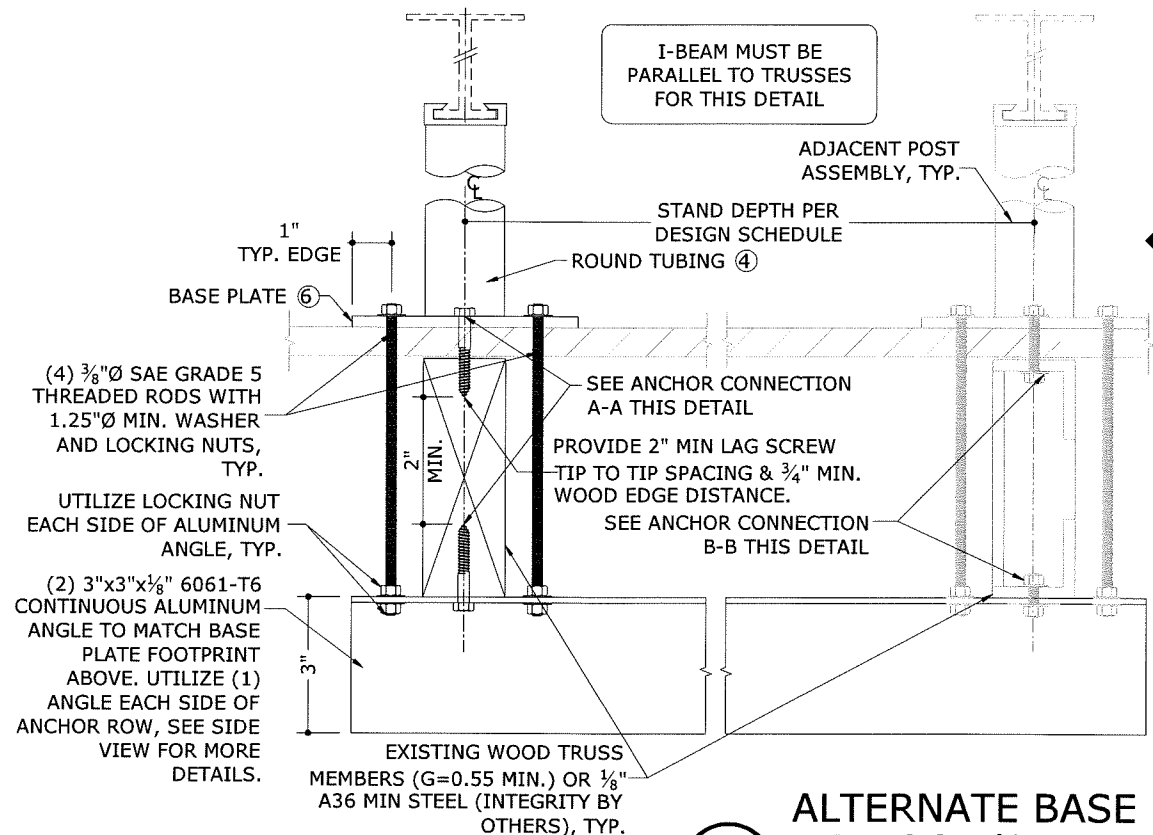


1B  
10 NTS  
SUPPORT ANGLE ATTACHMENT DETAIL

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 17-148-02  
Expiration Date 01/15/2024  
By *[Signature]*  
Miami Dade Product Control



2  
10 NTS  
BASE PLATE REACTIONS



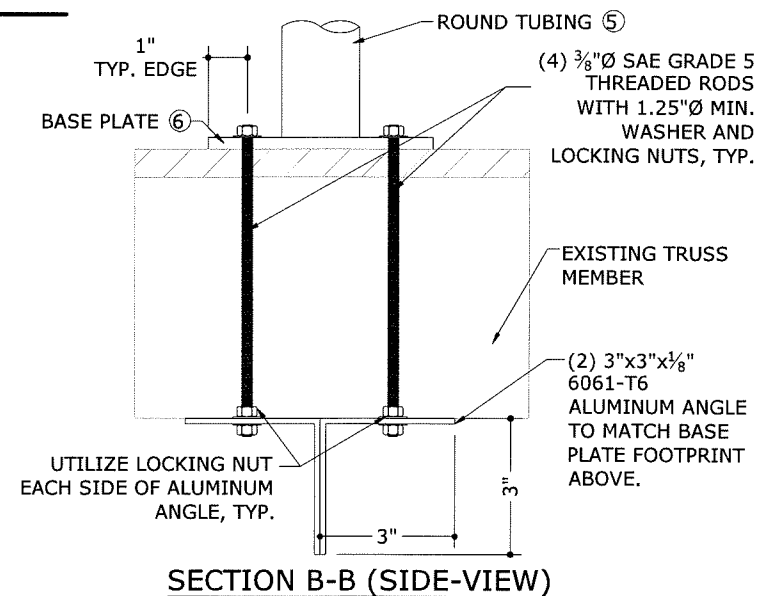
4  
10 NTS  
ALTERNATE BASE PLATE ATTACHMENT AT WOOD/STEEL TRUSS MEMBERS

## ANCHOR SCHEDULE

| ANCHOR TYPE | HOST STRUCTURE | ANCHOR DESCRIPTION                                                                                                                                                                     |
|-------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1           | STEEL          | 3/8" SAE GRADE 5 SHEET METAL SCREWS WITH 1" MIN. WASHER, TO STRUCTURAL A36 STEEL MEMBERS (3/8" MIN HOST THICKNESS)                                                                     |
| 2           | CONCRETE       | 3/8" POWERS CARBON STEEL WEDGE-BOLT CONCRETE ANCHOR WITH 1" MIN. WASHER, 2-1/2" EMBEDMENT & 6" MIN EDGE DISTANCE, SEE BASE PLATE COMPONENT #6 (ON SHEET 2) FOR TYPICAL ANCHOR SPACING. |
| 3           | WOOD*          | *SEE DETAIL 4/10 OR SITE SPECIFIC ENGINEERING IS REQUIRED                                                                                                                              |
| 4           | STEEL          | 3/8" SAE GRADE 5 THRU-BOLT WITH 1" MIN. WASHER & NUT, TO STRUCTURAL A36 STEEL MEMBERS (3/8" MIN HOST THICKNESS)                                                                        |

## ANCHOR NOTES:

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE FOR EACH ANCHOR.
3. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. ALL CONCRETE SUBSTRATE SHALL BE UN-CRACKED CONCRETE AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. CONCRETE SUBSTRATE THICKNESS SHALL BE GREATER THAN OR EQUAL TO 1.5x ANCHOR EMBEDMENT. INSTALL CONCRETE ANCHORS TO UN-CRACKED CONCRETE ONLY.
4. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES ROOFING FINISHES.
5. WHERE EXISTING STRUCTURE IS WOOD TRUSSES, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD TRUSS MEMBERS, NOT INTO PLYWOOD.



SECTION B-B (SIDE-VIEW)

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04/25/2018

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| FBC UPDATE            | RWN  | CSL  | 07/07/15 |
| REV. PER MD COMMENTS  | RWN  | FLB  | 05/07/16 |
| REV-2017 FBC          | RWN  | FLB  | 11/01/17 |

15-2476

SCALE: NTS  
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