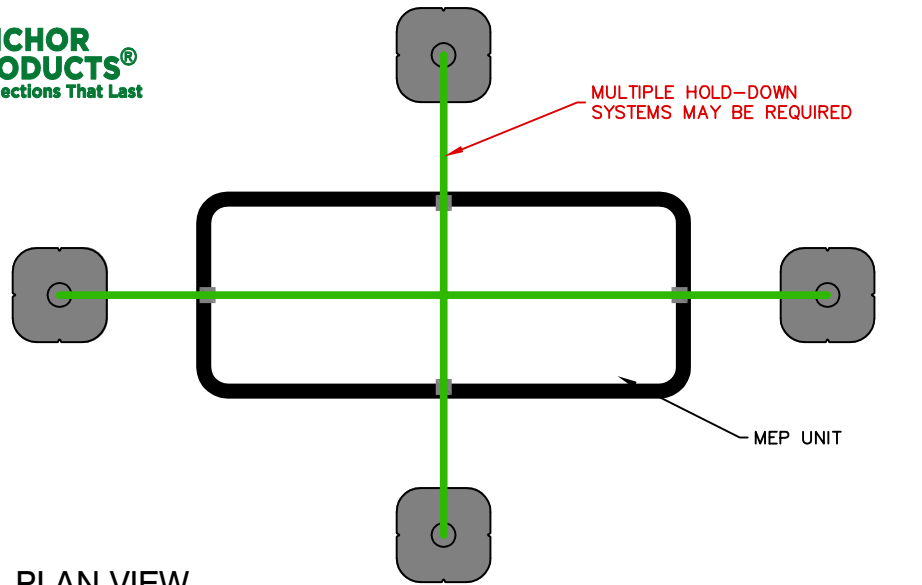




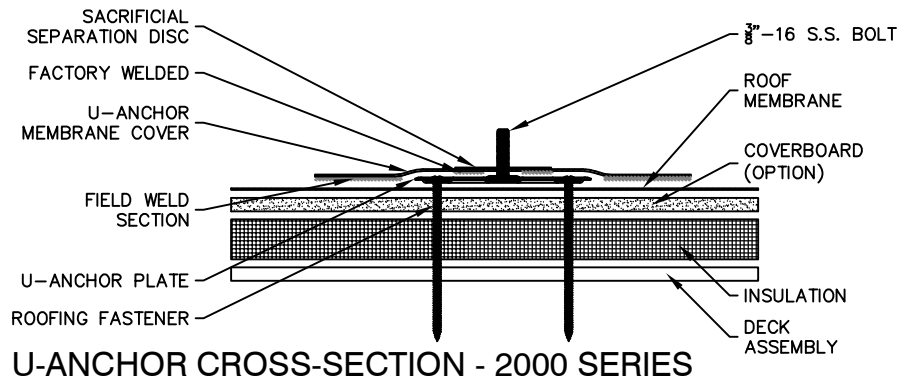
# SYSTEM DATA SHEET

## EXISTING MECHANICAL TIE-DOWN - 2000 SERIES U-ANCHOR

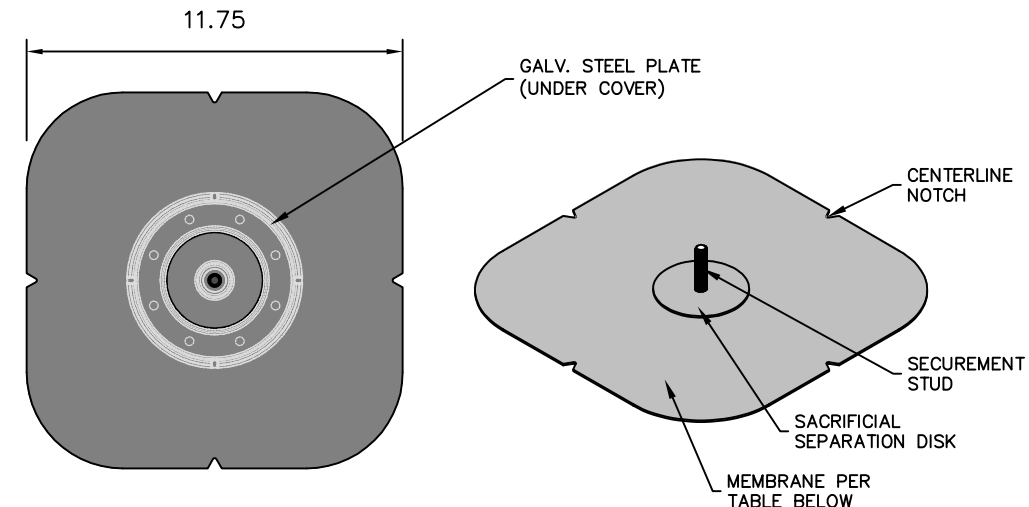
**ANCHOR PRODUCTS®**  
Connections That Last



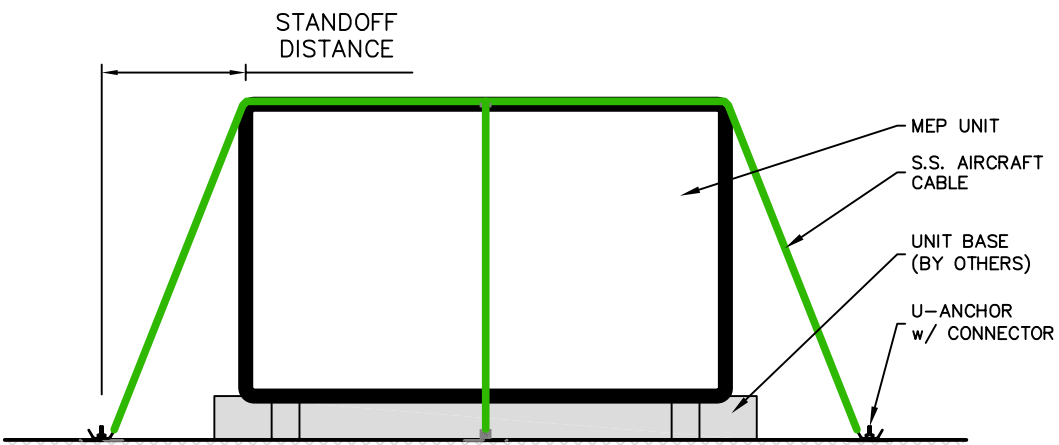
PLAN VIEW



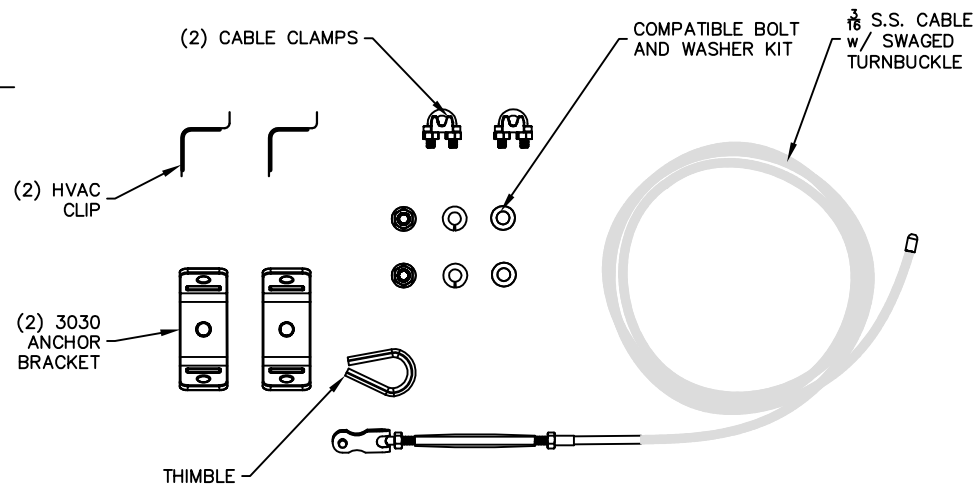
U-ANCHOR CROSS-SECTION - 2000 SERIES



U-ANCHOR - 2000 SERIES



ELEVATION VIEW



GUY WIRE COMPONENTS

### MEMBRANE OPTIONS

|           |   |
|-----------|---|
| TPO       | ELEVATE, GEN FLEX, JM, MULE HIDE, CARLISLE, DURALAST, GAF, IKO, VERSICO   |
| PVC\KEE   | ELEVATE, GEN FLEX, JM, MULE HIDE, CARLISLE, DURALAST, FIBERTITE, FLEX, GAF, IB, IKO, SIKI SARNAFIL, VERSICO, WEATHER BOND |
| EPDM      | ELEVATE, GEN FLEX, JM, MULE HIDE, CARLISLE, VERSICO   |
| APP       | ELEVATE, GEN FLEX, JM, MULE HIDE, CERTAINTEED, DERBIGUM, GAF, GARLAND, MALARKEY, POLYGLASS, SIPLAST, SOPREMA, TREMCO      |
| SBS\TORCH | ELEVATE, GEN FLEX, JM, MULE HIDE, CERTAINTEED, DERBIGUM, GAF, GARLAND, MALARKEY, POLYGLASS, SIPLAST, SOPREMA, TREMCO      |
| BUR       | ELEVATE, GEN FLEX, JM, MULE HIDE, CERTAINTEED, DERBIGUM, GAF, GARLAND, MALARKEY, POLYGLASS, SIPLAST, SOPREMA, TREMCO      |

### HOLD-DOWN SYSTEM STANDOFF REQUIREMENTS

| ASCE WIND LOAD, Vmph | MEP UNIT TRIBUTARY AREA, in <sup>2</sup> |      |      |      |      |      |               |               |               |  |
|----------------------|--|------|------|------|------|------|---------------|---------------|---------------|--|
|                      | 1300                                     | 1730 | 2310 | 2880 | 3600 | 3960 | 4320          | 5040          | 5760          |  |
| 100                  | 1'                                       | 1'   | 1'   | 1'   | 1'   | 1'   | 1'            | 3'            | 3'            |  |
| 110                  | 1'                                       | 1'   | 1'   | 1'   | 1'   | 3'   | 3'            | 3'            | 3'            |  |
| 120                  | 1'                                       | 1'   | 1'   | 1'   | 3'   | 3'   | 3'            | 3'            | 5'            |  |
| 130                  | 1'                                       | 1'   | 1'   | 3'   | 3'   | 3'   | 3'            | 5'            | 5'            |  |
| 140                  | 1'                                       | 1'   | 1'   | 3'   | 3'   | 5'   | 5'            | 5'            | ENG. REQUIRED |  |
| 150                  | 1'                                       | 1'   | 3'   | 3'   | 5'   | 5'   | ENG. REQUIRED | ENG. REQUIRED | ENG. REQUIRED |  |

### NOTES:

- CONTACT ANCHOR PRODUCTS FOR INSTRUCTIONS ON INSTALLS IN AREAS WITH HIGH WIND DEMANDS OR SITUATIONS OUTSIDE OF THE ABOVE TABLE.
- CALCULATED SYSTEMS IN THE TABLE ABOVE ARE BASED ON ASCE 7-22 WIND LOAD PROCEDURES FOR A RISK CATEGORY II BUILDING TYPE AT A ROOF HEIGHT OF 45' FROM GROUND LEVEL. MEP BASE HEIGHT SHOULD NOT EXCEED 24". ENGINEERING WILL BE REQUIRED WHERE THE TOTAL UNIT HEIGHT EXCEEDS 7'
- ALL HARDWARE IS TO BE STAINLESS STEEL.
- INSTALLATION SHALL BE PERFORMED BY CERTIFIED INSTALLERS AND COMPLY WITH THE ROOFING MANUFACTURER'S AND ANCHOR PRODUCT'S INSTALLATION SPECIFICATIONS.
- FASTENER HARDWARE SHALL BE INSTALLED PER THE FASTENER MANUFACTURE'S SPECIFICATIONS TO THE SUBSTRATE INCLUDING DECK PENETRATION AND OTHER SPECIFIED STANDARDS.
- SEAM WELDS MUST COMPLY WITH THE ROOFING MANUFACTURER'S REQUIREMENTS. THE AREA SHOULD BE CLEANED AND FREE OF DEBRIS AS PER THE ROOFING MANUFACTURER'S SPECIFICATION. TYPICAL SEAM WELDS ARE A MINIMUM 1.5". SEAMS MUST BE PROBED TO ENSURE A SUFFICIENT WELD HAS BEEN ACHIEVED. USE CUT EDGE SEALANT AS MANDATED BY THE ROOFING MANUFACTURER.

### SPECS:

TESTED IN ACCORDANCE WITH FM 4481.4.1 SF OF 2 SHOULD BE USED FOR ALLOWABLE LOADS. A SF OF 4 SHOULD BE USED IN LIFE SAFETY APPLICATIONS. BASED ON LAB TESTED RESULTS, IN-SITU RESULTS MAY VARY. CONTACT ANCHOR PRODUCTS DIRECTLY FOR ADDITIONAL ENGINEERING INFORMATION

- BOLT IS 3/8"-16x1-3/8 304 STAINLESS STEEL
- PLATE IS 5.5"φ, 19ga THICK G90 GALVANIZED STEEL
- FASTENER HOLES ARE 0.265"φ
- 3/8" STAINLESS STEEL 7x19 AIRCRAFT CABLE SWAGED TO A S.S. TURNBUCKLE AND SWAGED OPEN SOCKET. COMES IN 12', 20', OR CUSTOM LENGTHS.
- CABLE PERFORMANCE:  
ULTIMATE LOAD  
TENSILE: 2885 lbf.
- ANCHOR PERFORMANCE:  
ULTIMATE LOADS  
SHEAR: 2540 lbf.  
TENSILE: 1740 lbf.

### HARDWARE

| ROOF TYPE                   | HARDWARE KIT                  |
|-----------------------------|-------------------------------|
| METAL DECK (24ga MIN)       | (8) #14 or #15 ROOF FASTENERS |
| PLYWOOD SHEETING (3/4" MIN) | (8) #14 ROOF FASTENERS        |
| PARTICLE SHEETING (1" MIN)  | (8) #14 ROOF FASTENERS        |
| CONCRETE DECK (STD WEIGHT)  | (6) #14 CONCRETE FASTENERS    |

**Codes & Approvals**

FM 4481 - Anchors for roof mounted equipment  
FM Approval with selected membranes

ESR - 4152

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6313 AIRPORT FWY. STE. D, HALTOM CITY, TX 76117  
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**CONNECTIONS THAT LAST**

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