FREESTANDING ALUMINUM TOWER
MODEL #16-50

TOTAL WEIGHT: 171 LBS.

WIND LOADING:

<table>
<thead>
<tr>
<th>Wind Speed</th>
<th>Load Area</th>
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<tbody>
<tr>
<td>80 mph</td>
<td>16.5 Sq. Ft.</td>
</tr>
<tr>
<td>100 mph</td>
<td>10.5 Sq. Ft.</td>
</tr>
<tr>
<td>110 mph</td>
<td>7.0 Sq. Ft.</td>
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</tbody>
</table>

Contact Universal Towers to confirm geographical location of your tower and all wind load implications.

WARRANTY

UNIVERSAL TOWERS ARE WARRANTED AGAINST DEFECTIVE MATERIAL OR WORKMANSHIP AND ARE SUBJECT TO REPAIR OR TO MATERIAL REPLACEMENT ONLY IF FAILURE RESULTS FROM THESE FACTORS WITHIN ONE YEAR FROM PURCHASE BY USER. THIS WARRANTY DOES NOT EXTEND TO ANY OF OUR PRODUCTS WHICH HAVE BEEN SUBMITTED TO MISUSE, NEGLECT, ACCIDENT, IMPROPER INSTALLATION OR APPLICATION, NOR SHALL IT EXTEND TO UNITS WHICH HAVE BEEN REPAIRED OR SUBSTANTIALLY ALTERED OUTSIDE OF OUR FACTORY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.

ELEVATION
SCALE: 1/8"=1'-0"

ISOMETRIC
SCALE: N.T.S.
$\frac{3}{8}$" DIA. ALUMINUM BARS - BENT AS SHOWN - $1\frac{1}{2}'$ R. MIN.

$1''x0.065$ WALL ALUMINUM TUBE

SWAGE 3" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 0.85" DIA. 0.035" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

$\frac{1}{2}'$ MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

6 EQUAL SPACES AT 18' EACH = 7'-6"
1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

7/8" DIA. ALUMINUM BARS - BENT AS SHOWN - 1½" R. MIN.

1½"x0.083 WALL ALUMINUM TUBE

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1" DIA. 0.065" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

TAPERED SECTION
$\frac{3}{8}''$ DIA. ALUMINUM BARS - BENT AS SHOWN - $\frac{1}{2}''$ R. MIN.

$\frac{1}{32}$" x 1.300" I.D. ALUMINUM TUBE

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1.25" DIA. 0.083" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

1½'' MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

6 EQUAL SPACES AT 18" EACH = 9'-0"

1'-8 3/4"

1'-6"

1'-5"

5"

1" MIN.

1'-3 1/4"

1'-2 1/4"

WEBBING

ELEVATION
SCALE: 1/2''=1'-0"

PLAN VIEW
SCALE: 1/2''=1'-0"

TAPERED SECTION

UNIVERSAL TOWERS
A SUBSIDIARY OF UNIVERSAL MANUFACTURING CORP.
43900 GROSEBECK HWY.
CLINTON TOWNSHIP, MI 48036
PH: (586) 463-2560
FAX: (586) 463-2964

COMPONENT: 22-TAPR

JOB NO.:
1 1/2" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

2 3/4" MIN. 6 EQUAL SPACES AT 18" EACH = 9'-0"

1 1/8" X 1.300" I.D. ALUMINUM TUBE

¾" DIA. ALUMINUM BARS - BENT AS SHOWN - ½" R. MIN.

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1.25" DIA. 0.083" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"

TAPERED SECTION

JOB NO.: 26-TAPR

COMPONENT:
1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

2'-0¾"

6 EQUAL SPACES AT 18" EACH = 9'-0"

1'-0"

1½" MIN.

9½" DIA. ALUMINUM BARS - BENT AS SHOWN - ½" R. MIN.

1¾"x1.300" I.D. ALUMINUM TUBE

SWAGE 3.28" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1.25" DIA. 0.083" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ISOMETRIC
SCALE: N.T.S.

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"

STRAIGHT SECTION
HINGED CONNECTION ASSEMBLY - REFER TO ENLARGED DETAIL BELOW

1/2" x 1/2" x 1/4" L ANCHORAGE

1 1/2" T.S. 0.10" WALL - 60" LONG

OUTLINE OF CONCRETE FOOTING

SEE ENLARGED DETAIL - THIS SHEET

1 1/2" x 1.300" I.D. STEEL TUBE

TWO (2) 3/8" THRU-HOLES PERPENDICULAR TO EACH OTHER

TWO (2) 3/8" GRADE 8 BOLTS

NOTE: FOUNDATIONS ARE DESIGNED FOR FIRM BEARING SOIL.