

ANALYSIS OF VALMONT INDUSTRIES LIGHTING STRUCTURE
IN ACCORDANCE WITH AASHTO-1994 RQMTS. (FINAL DEFLECTED POSITION)
BY MLS 03/31/2010 VERSION Fuse 1.9.0.363

SUBJECT: MASSACHUSETTS, 25' MAST ARM (WORST CASE LOAD)

FOLDER: MATR335 FILE: 25 GUST FACTOR: 1.30

ELEVATION OF FOUNDATION ABOVE SURROUNDING TERRAIN = 0.0 (FT)
STEPS INCLUDED ? NO

WIND VELOCITY = 90 MPH CRITERIA: AASHTO-1994
AASHTO ICE INCLUDED ? YES

POLE :

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| | | |
|----------|---|--------------|
| SHAPE | = | ROUND |
| LENGTH | = | 21.00 FT |
| BOT O.D. | = | 10.00 IN |
| TOP O.D. | = | 7.06 IN |
| TAPER | = | 0.1400 IN/FT |
| WEIGHT | = | 351 LBS |

POLE SECTIONS

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BOTTOM SECTION

| | | |
|----------------|---|-----------|
| THICKNESS | = | 0.1793 IN |
| LENGTH | = | 21.00 FT |
| YIELD STRENGTH | = | 55 KSI |

BASE PLATE (SQUARE)

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| | | |
|----------------|---|----------|
| WIDTH | = | 16.00 IN |
| THICKNESS | = | 1.250 IN |
| YIELD STRENGTH | = | 36 KSI |

ANCHOR BOLTS

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| | | |
|----------------|---|----------|
| QUANTITY | = | 4 |
| BOLT DIAMETER | = | 1.25 IN |
| BOLT CIRCLE | = | 16.00 IN |
| YIELD STRENGTH | = | 55 KSI |