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AFS-550 Bill of Materials

1. All plate and right angle material shall shall have a minimum yield strength of 345 MPa ( 50 ksi )
2. All welding shall conform to the minimum requirements of AWS D1.1
3. All welding shall be done by welders qualified under AWS specifications, using E80XX, low hydrogen electrodes
4. All components shall Hot Dip Galvanized in accordance with ASTM A123
5. Debur all sharp edges

| AFS-550 Bill of Materials |  |  |  |
| :---: | :---: | :---: | :---: |
| $\#$ | DESCRIPTION | QTY. | Weight (kg/ lbs) |
| A |  |  |  |
| $5^{*}$ | Rod End Bracket | 1 | $29 / 64$ |
| 6 | Kingpost | 1 | $323 / 710$ |
| 7 | Ballast Tray | 8 | $64 / 141$ |
| 8 | Vertical Web | 8 | $6 / 13$ |
| 9 | Diagonal Web | 16 | $3.5 / 7.7$ |
| 10 | Sidewall front/ back | 16 | $35 / 77$ |
| 11 | Sidewall Sides | 16 | $10 / 22.5$ |
| 12 | Corner bracket | 32 | $4.2 / 9.3$ |
| 13 | Horizontal Brace | 16 | $14 / 31$ |
| 14 | Diagonal Brace | 16 | $14 / 31$ |
| 15 | Hinge Pin 39mm | 2 | $1 / 2.2$ |
| 16 | Truss Heel | 8 | $42 / 92$ |
| 17 | Lift Mount/ Rest | 8 | $21 / 46.2$ |


*Reference Pole Drawing

E

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| $\#$ | Unit | Bolt Size |  |
| 18 | Metric | $M 12 \times 1.75$ |  |
| 18 | Imperial | $1 / 2-13$ |  |
| 19 | Metric | $M 20 \times 2.5$ |  |
| 19 | Imperial | $3 / 4-10$ |  |
| 20 | Metric | $M 42 \times 4.5$ |  |
| 20 | Imperial | $1-1 / 2-6$ |  |

AFS-550 Bolts, Nuts \& Washers (other equivalent grades acceptable)

| AFS-550 Bolts, Nuts \& Washers (other equivalent grades acceptable) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Length | Width Across Flats | Thread Length | Grade | Coating | Nut Qty. | Washer Qty. | Bolt Qty. |
| 40 mm | 18 mm | Full Thread | 8.8 | Hot Dip Galv. | 272 | 544 | 272 |
| $1-5 / 8^{\prime \prime}$ | $7 / 8^{\prime \prime}$ | Full Thread | A325 | Hot Dip Galv. | 272 | 544 | 272 |
| 50 mm | 30 mm | Full Thread | 8.8 | Hot Dip Galv. | 168 | 336 | 168 |
| $2 "$ | $1-1 / 4^{\prime \prime}$ | Full Thread | A325 | Hot Dip Galv. | 168 | 336 | 168 |
| 250 mm | 65 mm | 225 mm | 8.8 | Hot Dip Galv. | 24 | 32 | 8 |
| $10^{\prime \prime}$ | $2-3 / 8^{\prime \prime}$ | $9 "$ | A325 | Hot Dip Galv. | 24 | 32 | 8 |


| CAD-generated drawing do not manually update |  | ARE <br> Blecrom + |  |
| :---: | :---: | :---: | :---: |
| APPROVALS | DATE |  |  |
| DRAWN MGC | 4/14/21 | BOM |  |
| RESPENG |  | CAD file : <br> Details and dimensions not shown on this drawing |  |
| MFG ENG |  |  |  |
|  |  |  |  |

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submitted in confidence and neither the document nor the information lisclosed submalled be reproduced or transferred to o other documents for manufacturing or for any other purpose except as specifically authorized in writing by ARE Telecon \& Wind.


Ballast Box Volume $24 \mathrm{cu}-\mathrm{ft}$ ( $0.68 \mathrm{cu}-\mathrm{m}$ ) Total Ballast
$7.1 \mathrm{cu}-\mathrm{yd}$ ( $5.44 \mathrm{cu}-\mathrm{m}$ ) Minimum Ballast Weight



Cable Guide Bracket


## fabrication Notes:

*The number of cable guides will vary based on height of pole and shall be equally spaced between the upper and lower cable mount brackets.
2. All plate material shall shall have a minimum yield strength of $345 \mathrm{MPa}(50 \mathrm{ksi})$
3. All welding shall conform to the minimum requirements of AWS D1.1
4. All welding shall be done by welders qualified under AWS specifications, using E70XX, low hydrogen electrodes
5. Hot Dip Galvanized in accordance with ASTM A123
6. Debur all sharp edges

| $\#$ | DESCRIPTION (Optional Grade) | QTY | Weight lb/ kg |
| :---: | :---: | :---: | :---: |
| 1 | Cable Mount Bracket-ASTM A572 GR 50 (Q345 or Q355) | 2 | $1.85 / 0.84$ |
| 2 | Cable Guide Bracket-ASTM A572 GR 50 (Q345 or Q355) | *1 or more | $0.51 / 0.23$ |


Cable Mount/ Guide Brackets

