Ka-Band Mounting Catalog
Up to 1.0m Ka-Band Mounts  (Pg 4)

1.0m Angular Deflection  
Pg 4-5

Up to 1.0m Mounts  
Pg 6-12

1.2m Ka-Band Mounts  (Pg 13)

1.2m Angular Deflection  
Pg 14-15

1.2m Mounts  
Pg 16-22

1.8m Ka-Band Mounts  (Pg 23)

1.8m Angular Deflection  
Pg 24-25

1.8m Mounts  
Pg 26-33

2.4m Ka-Band Mounts  (Pg 34)

2.4m Angular Deflection  
Pg 35-36

2.4m Mounts  
Pg 37-50
Up to 1.0m Ka-Band Mounts

1.0m Angular Deflection
Pg 4-5

1.0M Ka Non-Penetrating Mount
Pg 6-7

1.0m Ka Ridgemount
Pg 8-9

1.0m Ka Wall Mount
Pg 10-11

1.0m Ka Pedestal King-Post Mount
Pg 12
BAIRD MOUNTING SYSTEMS
BAIRD B3-34x40 MOUNT w/ 1.0M (3 FT) ANTENNA

Test Date and Location:

July 2013; Baird Mounting Systems testing facility, Waterloo, IA

Requirement:

To determine Total Angular Deflection: SQRT (Az^2 + El^2) at highest torsion loading conditions.

Testing Details:

Baird’s testing procedures were designed to simulate the real world effects of a 1.0M (3 ft) antenna on the B3-34x40 non-penetrating mount. A stationary reference device with four (4) gauges was installed to measure total angular deflection of the B3-34x40 mount at loads simulating various wind speeds.

*Testing setup consisting of a hydraulic cylinder to apply loads, a load cell to measure applied loads and four (4) gauges set to collect measurements for total angular deflection. The B4-6x6 mount is pictured. A comparable set up was used for the B3-34x40 non-penetrating mount.

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B3-34x40 Angular Deflection

Baird Mounting Systems
Baird B3-34X40 Mount w/ 1.0M (3 ft) Antenna

Results from Angular Deflection Test (Operational Test)

Baird B3-34X40 Non-Penetrating Mount
1.0M (3 ft) Antenna

<table>
<thead>
<tr>
<th>WIND MPH</th>
<th>LOAD LBS</th>
<th>TORQUE FT LBS</th>
<th>AZ INCHES</th>
<th>AZ DEGREES</th>
<th>EL INCHES</th>
<th>EL DEGREES</th>
<th>TOTAL ANGULAR DEFLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>13</td>
<td>11</td>
<td>0.025</td>
<td>0.048</td>
<td>0.013</td>
<td>0.047</td>
<td>0.067</td>
</tr>
<tr>
<td>35</td>
<td>18</td>
<td>15</td>
<td>0.040</td>
<td>0.078</td>
<td>0.020</td>
<td>0.072</td>
<td>0.107</td>
</tr>
<tr>
<td>40</td>
<td>24</td>
<td>21</td>
<td>0.050</td>
<td>0.097</td>
<td>0.026</td>
<td>0.093</td>
<td>0.135</td>
</tr>
<tr>
<td>45</td>
<td>30</td>
<td>26</td>
<td>0.067</td>
<td>0.131</td>
<td>0.034</td>
<td>0.120</td>
<td>0.178</td>
</tr>
<tr>
<td>50</td>
<td>37</td>
<td>32</td>
<td>0.086</td>
<td>0.157</td>
<td>0.043</td>
<td>0.154</td>
<td>0.227</td>
</tr>
<tr>
<td>60</td>
<td>53</td>
<td>46</td>
<td>0.126</td>
<td>0.246</td>
<td>0.064</td>
<td>0.229</td>
<td>0.336</td>
</tr>
<tr>
<td>75</td>
<td>82</td>
<td>71</td>
<td>0.200</td>
<td>0.389</td>
<td>0.101</td>
<td>0.363</td>
<td>0.532</td>
</tr>
<tr>
<td>100</td>
<td>147</td>
<td>126</td>
<td>0.324</td>
<td>0.680</td>
<td>0.153</td>
<td>0.548</td>
<td>0.835</td>
</tr>
</tbody>
</table>

Results from Post Max Load Test (Survival Test)

Baird B3-34X40 Non-Penetrating Mount
1.0M (3 ft) Antenna

<table>
<thead>
<tr>
<th>WIND MPH</th>
<th>LOAD LBS</th>
<th>AZ INCHES</th>
<th>AZ DEGREES</th>
<th>EL INCHES</th>
<th>EL DEGREES</th>
<th>TOTAL DEFLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>580</td>
<td>0.000</td>
<td>0.000</td>
<td>0.004</td>
<td>0.013</td>
<td>0.013</td>
</tr>
</tbody>
</table>

*Angular Deflection Test (Operational Test) measures total angular deflection while the loads are being applied to the B3-34x40 mount.

*Post Max Load Test (Survival Test) measures total deflection after the 125 mph (580 lbs.) load was removed from the B3-34x40 mount to confirm no permanent bending or structural damage has taken place.

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<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>B3-131X25</td>
<td>1.31&quot;OD [33.4mm]</td>
<td>33 lbs. [15.0kg]</td>
</tr>
<tr>
<td>B3-166X25</td>
<td>1.66&quot;OD [42.2mm]</td>
<td>35 lbs. [15.9kg]</td>
</tr>
<tr>
<td>B3-190X25</td>
<td>1.90&quot;OD [48.3mm]</td>
<td>36 lbs. [15.3kg]</td>
</tr>
<tr>
<td>B3-200X25</td>
<td>2&quot;OD [50.8mm]</td>
<td>36 lbs. [16.3kg]</td>
</tr>
<tr>
<td>B3-237X25</td>
<td>2.37&quot;OD [60.3mm]</td>
<td>38 lbs. [17.2kg]</td>
</tr>
<tr>
<td>B3-288X25</td>
<td>2.88&quot;OD [73mm]</td>
<td>38 lbs. [17.2kg]</td>
</tr>
<tr>
<td>B3-300X25</td>
<td>3&quot;OD [76.2mm]</td>
<td>38 lbs. [17.2kg]</td>
</tr>
</tbody>
</table>
BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

DRAWN BY
JK
DATE
05/30/13
MATERIAL
STEEL
FINISH
HDG

DWG. NO.
B3-(000)X25

SCALE
1:15

TITLE:
B3-34X40 MOUNT WITH 2.5' MAST

PART. NO.
SEE TABLE-SHEET 1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±
BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±
DO NOT SCALE DRAWING
ADJUSTS FROM FLAT TO 7/12 ROOF PITCH (30 DEGREES)

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSRM-131X2</td>
<td>1.31&quot; O D [33.4mm]</td>
<td>65 lbs. [29.5kg]</td>
</tr>
<tr>
<td>SSRM-166X2</td>
<td>1.66&quot; O D [42.2mm]</td>
<td>66 lbs. [29.9kg]</td>
</tr>
<tr>
<td>SSRM-190X2</td>
<td>1.90&quot; O D [48.3mm]</td>
<td>66 lbs. [29.9kg]</td>
</tr>
<tr>
<td>SSRM-200X2</td>
<td>2&quot; O D [50.8mm]</td>
<td>66 lbs. [29.9kg]</td>
</tr>
<tr>
<td>SSRM-237X2</td>
<td>2.37&quot; O D [60.3mm]</td>
<td>67 lbs. [30.4kg]</td>
</tr>
<tr>
<td>SSRM-288X2</td>
<td>2.88&quot; O D [73mm]</td>
<td>68 lbs. [30.8kg]</td>
</tr>
<tr>
<td>SSRM-300X2</td>
<td>3&quot; O D [76.2mm]</td>
<td>68 lbs. [30.8kg]</td>
</tr>
</tbody>
</table>

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±
DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

PART NO.
SS-RIDG EMOUNT WITH 2' MAST
SSRM-131X2 1.31" O D [33.4mm] 65 lbs. [29.5kg]
SSRM-166X2 1.66" O D [42.2mm] 66 lbs. [29.9kg]
SSRM-190X2 1.90" O D [48.3mm] 66 lbs. [29.9kg]
SSRM-200X2 2" O D [50.8mm] 66 lbs. [29.9kg]
SSRM-237X2 2.37" O D [60.3mm] 67 lbs. [30.4kg]
SSRM-288X2 2.88" O D [73mm] 68 lbs. [30.8kg]
SSRM-300X2 3" O D [76.2mm] 68 lbs. [30.8kg]
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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL
ANGULAR: MACH BEND
TWO PLACE DECIMAL
THREE PLACE DECIMAL
DO NOT SCALE DRAWING

BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

REV. SHEET
DRAWN BY
DATE
MATERIAL
FINISH
DRAWING NO.
CUSTOMER
SHEET SCALE

TITLE:
SS-RIDGEMOUNT WITH 2' MAST
PART. NO.
SEE TABLE-SHEET 1
SSRM-(000)X2

WWW.BAIRDMOUNTS.COM

30.3°

79.0in [2007mm]

48.5in [1232mm]

24.0in [610mm]

3.6in [92mm]
<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>WL4-166X1</td>
<td>1.66&quot; OD [42.2mm]</td>
<td>53 lbs. [24.0kg]</td>
</tr>
<tr>
<td>WL4-190X1</td>
<td>1.90&quot; OD [48.3mm]</td>
<td>55 lbs. [24.9kg]</td>
</tr>
<tr>
<td>WL4-200X1</td>
<td>2&quot; OD [50.8mm]</td>
<td>56 lbs. [25.4kg]</td>
</tr>
<tr>
<td>WL4-237X1</td>
<td>2.37&quot; OD [60.3mm]</td>
<td>56 lbs. [25.4kg]</td>
</tr>
<tr>
<td>WL4-288X1</td>
<td>2.88&quot; OD [73mm]</td>
<td>56 lbs. [25.4kg]</td>
</tr>
<tr>
<td>WL4-300X1</td>
<td>3&quot; OD [76.2mm]</td>
<td>56 lbs. [25.4kg]</td>
</tr>
<tr>
<td>WL4-350X1</td>
<td>3.50&quot; OD [88.9mm]</td>
<td>60 lbs. [27.2kg]</td>
</tr>
</tbody>
</table>

**Plot Diagram:**

This is a diagram of the WL4 wall mount with a 1' mast, showing the different part numbers and specifications for mast diameter and weight.
### Pedestal Kit: Up to 1.2M

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mast Diameter</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PK190X3BC850C1</td>
<td>1.9” O.D. [48.3mm]</td>
<td>25 lbs. [11.3kg]</td>
</tr>
<tr>
<td>PK200X3BC850C1</td>
<td>2” O.D. [50.8mm]</td>
<td>26 lbs. [11.8kg]</td>
</tr>
<tr>
<td>PK237X3BC850C1</td>
<td>2.37” O.D. [60.3mm]</td>
<td>29 lbs. [13.2kg]</td>
</tr>
<tr>
<td>PK288X3BC850C1</td>
<td>2.88” O.D. [73.0mm]</td>
<td>36 lbs. [16.3kg]</td>
</tr>
<tr>
<td>PK300X3BC850C1</td>
<td>3” O.D. [76.2mm]</td>
<td>41 lbs. [18.6kg]</td>
</tr>
<tr>
<td>PK350X3BC850C1</td>
<td>3.5” O.D. [88.9mm]</td>
<td>42 lbs. [19.1kg]</td>
</tr>
</tbody>
</table>

**NOTE:**
- Dimensions are in inches.
- Tolerances: Fractional ±, Angular: Mach 1, Bend ±.
- Two place decimal ±, Three place decimal ±.
- Do not scale drawing.

---

**BAIRD MOUNTING SYSTEMS**

**Waterloo, IA 50703**

**Phone:** 319-233-3561

**Sales:** sales@bairdmounts.com

---

**Drawing Information:**

- **Drawn By:** J.K.
- **Date:** 07/26/13
- **Material:** Steel
- **HDG:** 10F2
- **Sheet:** 1 of 2
- **Scale:** 1/8

---

**Customer:** JK

**Part No.:** PK(000)X3BC850C1
BAIRD MOUNTING SYSTEMS
BAIRD B4-6x6 DRB MOUNT w/ 1.2M (4 FT) ANTENNA

Test Date and Location:
July 2013; Baird Mounting Systems testing facility, Waterloo, IA

Requirement:
To determine Total Angular Deflection: \( \text{SQRT (Az}^2 + \text{El}^2) \) at highest torsion loading conditions.

Testing Details:
Baird’s testing procedures were designed to simulate the real world effects of a 1.2M (4 ft) antenna on the B4-6x6 DRB non-penetrating mount. A stationary reference device with four (4) gauges was installed to measure total angular deflection of the B4-6x6 DRB mount at loads simulating various wind speeds.

*B4-6x6 DRB non-penetrating mount with four (4) gauges set to collect measurements for total angular deflection.

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### Results from Angular Deflection Test (Operational Test)

**Baird B4-6x6 DRB Non-Penetrating Mount**
**1.2M (4 ft) Antenna**

<table>
<thead>
<tr>
<th>WIND MPH</th>
<th>LOAD LBS</th>
<th>TORQUE FT LBS</th>
<th>AZ INCHES</th>
<th>AZ DEGREES</th>
<th>EL INCHES</th>
<th>EL DEGREES</th>
<th>TOTAL ANGULAR DEFLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>20</td>
<td>24</td>
<td>0.011</td>
<td>0.019</td>
<td>0.001</td>
<td>0.002</td>
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<td>35</td>
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<td>33</td>
<td>0.015</td>
<td>0.026</td>
<td>0.002</td>
<td>0.004</td>
<td>0.026</td>
</tr>
<tr>
<td>40</td>
<td>35</td>
<td>42</td>
<td>0.022</td>
<td>0.038</td>
<td>0.003</td>
<td>0.005</td>
<td>0.039</td>
</tr>
<tr>
<td>45</td>
<td>44</td>
<td>53</td>
<td>0.030</td>
<td>0.052</td>
<td>0.007</td>
<td>0.013</td>
<td>0.054</td>
</tr>
<tr>
<td>50</td>
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<td>0.038</td>
<td>0.066</td>
<td>0.009</td>
<td>0.016</td>
<td>0.068</td>
</tr>
<tr>
<td>60</td>
<td>78</td>
<td>94</td>
<td>0.050</td>
<td>0.087</td>
<td>0.012</td>
<td>0.022</td>
<td>0.089</td>
</tr>
<tr>
<td>75</td>
<td>122</td>
<td>148</td>
<td>0.088</td>
<td>0.153</td>
<td>0.023</td>
<td>0.041</td>
<td>0.158</td>
</tr>
<tr>
<td>100</td>
<td>218</td>
<td>264</td>
<td>0.192</td>
<td>0.333</td>
<td>0.053</td>
<td>0.095</td>
<td>0.347</td>
</tr>
</tbody>
</table>

### Results from Post Max Load Test (Survival Test)

**Baird B4-6x6 DRB Non-Penetrating Mount**
**1.2M (4 ft) Antenna**

<table>
<thead>
<tr>
<th>WIND MPH</th>
<th>LOAD LBS</th>
<th>AZ INCHES</th>
<th>AZ DEGREES</th>
<th>EL INCHES</th>
<th>EL DEGREES</th>
<th>TOTAL ANGULAR DEFLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>131</td>
<td>989</td>
<td>0.000</td>
<td>0.000</td>
<td>0.104</td>
<td>0.187</td>
<td>0.187</td>
</tr>
</tbody>
</table>

*Angular Deflection Test (Operational Test) measures total angular deflection while the loads are being applied to the B4-6x6 DRB mount.

*Post Max Load Test (Survival Test) measures total angular deflection after the 131 mph (989 lbs.) load was removed from the B4-6x6 DRB mount to confirm no permanent bending or structural damage has taken place.*
ADJUSTS FROM FLAT TO 7/12 ROOF PITCH (30 DEGREES)

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUR-166X2</td>
<td>1.66&quot;OD [42.2mm]</td>
<td>147 lbs. [66.7kg]</td>
</tr>
<tr>
<td>SUR-190X2</td>
<td>1.90&quot;OD [48.3mm]</td>
<td>149 lbs. [67.6kg]</td>
</tr>
<tr>
<td>SUR-237X2</td>
<td>2.37&quot;OD [60.3mm]</td>
<td>151 lbs. [68.5kg]</td>
</tr>
<tr>
<td>SUR-288X2</td>
<td>2.88&quot;OD [73mm]</td>
<td>151 lbs. [68.5kg]</td>
</tr>
<tr>
<td>SUR-300X2</td>
<td>3&quot;OD [76.2mm]</td>
<td>151 lbs. [68.5kg]</td>
</tr>
<tr>
<td>SUR-350X2</td>
<td>3.50&quot;OD [88.9mm]</td>
<td>159 lbs. [72.1kg]</td>
</tr>
</tbody>
</table>

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES
- TOLERANCES:
  - FRACTIONAL ±
  - ANGULAR: MACHINE BEND ±
  - TWO PLACE DECIMAL ±
  - THREE PLACE DECIMAL ±
- DO NOT SCALE DRAWING

DESCRIPTION:
- SMALL UNIVERSAL RIDGE MOUNT (SURM) WITH 2' MAST

BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRD MountS.COM

DATE 05/31/13
DRAWN BY JK
MATERIAL STEEL
FINISH HDG
SHEET 1 OF 2
SCALE 1:15

PART NO. SURM-(000)X2
SEE TABLE
PART NO. | MAST DIAMETER | WEIGHT
---|---|---
WL4-166X1 | 1.66"OD [42.2mm] | 53 lbs. [24.0kg]
WL4-190X1 | 1.90"OD [48.3mm] | 55 lbs. [24.9kg]
WL4-200X1 | 2"OD [50.8mm] | 56 lbs. [25.4kg]
WL4-237X1 | 2.37"OD [60.3mm] | 56 lbs. [25.4kg]
WL4-288X1 | 2.88"OD [73mm] | 56 lbs. [25.4kg]
WL4-300X1 | 3"OD [76.2mm] | 56 lbs. [25.4kg]
WL4-350X1 | 3.50"OD [88.9mm] | 60 lbs. [27.2kg]
PEDESTAL KIT UP TO 1.2M

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PK190X3BC850C1</td>
<td>1.9&quot; OD [48.3mm]</td>
<td>25 lbs. [11.3kg]</td>
</tr>
<tr>
<td>PK200X3BC850C1</td>
<td>2&quot; OD [50.8mm]</td>
<td>26 lbs. [11.8kg]</td>
</tr>
<tr>
<td>PK237X3BC850C1</td>
<td>2.37&quot; OD [60.3mm]</td>
<td>29 lbs. [13.2kg]</td>
</tr>
<tr>
<td>PK288X3BC850C1</td>
<td>2.88&quot; OD [73.0mm]</td>
<td>36 lbs. [16.3kg]</td>
</tr>
<tr>
<td>PK300X3BC850C1</td>
<td>3&quot; OD [76.2mm]</td>
<td>41 lbs. [18.6kg]</td>
</tr>
<tr>
<td>PK350X3BC850C1</td>
<td>3.5&quot; OD [88.9mm]</td>
<td>42 lbs. [19.1kg]</td>
</tr>
</tbody>
</table>

DIMENSIONS ARE IN INCHES
TOLERANCES:
- FRACTIONAL ±
- ANGULAR: MACH ±
- TWO PLACE DECIMAL ±
- THREE PLACE DECIMAL ±

DO NOT SCALE DRAWING

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WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRD Mounts.COM

PART NO.
PK(000)X3BC850C1

DATE: 07/26/13
DRAWN BY: JK
MATERIAL: STEEL
FINISH: HDG
SHEET: 10F2
SCALE: 1:8

TITLE:
PEDESTAL KIT UP TO 1.2M

PDG.
NOT SCALE DRAWING

WWW.BAIRD Mounts.COM

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PEDESTAL KIT-UP TO 1.2M

- Dimensions are in inches
- Tolerances: Fractional ±
- Angular: Machined ±
- Two place Decimal ±
- Three place Decimal ±
- Do not scale drawing

BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

PART. NO.
PCK(000)X3BC 850C1

DRAWN BY
07/26/13

DATE
FINISH

MATERIAL
STEEL
HDG

DK
CUSTOMER

TITLE
SEE TABLE - SHEET 1

DRAWN TO SCALE

1:12
BAIRD MOUNTING SYSTEMS
BAIRD B6-116 KA MOUNT w/ 1.8M (6 FT) ANTENNA

Test Date and Location:
July 2013; Baird Mounting Systems testing facility, Waterloo, IA

Requirement:
To determine Total Angular Deflection: SQRT (Az2 + El2) at highest torsion loading conditions.

Testing Details:
Baird’s testing procedures were designed to simulate the real world effects of a 1.8M (6 ft) antenna on the B6-116 KA non-penetrating mount. A stationary reference device with four (4) gauges was installed to measure total angular deflection of the B6-116 KA mount at loads simulating various wind speeds.

*B6-116 KA non-penetrating mount with four (4) gauges set to collect measurements for total angular deflection.

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## B6-116 KA Angular Deflection

### Baird B6-116 KA Non-Penetrating Mount
1.8M (6 ft) Antenna

<table>
<thead>
<tr>
<th>WIND MPH</th>
<th>LOAD LBS</th>
<th>TORQUE FT LBS</th>
<th>AZ INCHES</th>
<th>AZ DEGREES</th>
<th>EL INCHES</th>
<th>EL DEGREES</th>
<th>TOTAL ANGULAR DEFLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>45</td>
<td>79</td>
<td>0.010</td>
<td>0.017</td>
<td>0.008</td>
<td>0.014</td>
<td>0.023</td>
</tr>
<tr>
<td>35</td>
<td>61</td>
<td>107</td>
<td>0.016</td>
<td>0.028</td>
<td>0.011</td>
<td>0.020</td>
<td>0.034</td>
</tr>
<tr>
<td>40</td>
<td>79</td>
<td>139</td>
<td>0.025</td>
<td>0.043</td>
<td>0.014</td>
<td>0.025</td>
<td>0.050</td>
</tr>
<tr>
<td>45</td>
<td>100</td>
<td>176</td>
<td>0.030</td>
<td>0.052</td>
<td>0.017</td>
<td>0.031</td>
<td>0.060</td>
</tr>
<tr>
<td>50</td>
<td>124</td>
<td>218</td>
<td>0.038</td>
<td>0.066</td>
<td>0.020</td>
<td>0.036</td>
<td>0.075</td>
</tr>
<tr>
<td>60</td>
<td>178</td>
<td>313</td>
<td>0.063</td>
<td>0.109</td>
<td>0.030</td>
<td>0.054</td>
<td>0.122</td>
</tr>
<tr>
<td>75</td>
<td>279</td>
<td>491</td>
<td>0.105</td>
<td>0.182</td>
<td>0.053</td>
<td>0.096</td>
<td>0.205</td>
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<tr>
<td>100</td>
<td>495</td>
<td>871</td>
<td>0.197</td>
<td>0.341</td>
<td>0.098</td>
<td>0.177</td>
<td>0.384</td>
</tr>
</tbody>
</table>

### Results from Post Max Load Test (Survival Test)
Baird B6-116 KA Non-Penetrating Mount
1.8M (6 ft) Antenna

<table>
<thead>
<tr>
<th>WIND MPH</th>
<th>LOAD LBS</th>
<th>AZ INCHES</th>
<th>AZ DEGREES</th>
<th>EL INCHES</th>
<th>EL DEGREES</th>
<th>TOTAL ANGULAR DEFLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>131</td>
<td>2231</td>
<td>0.000</td>
<td>0.000</td>
<td>0.015</td>
<td>0.027</td>
<td>0.027</td>
</tr>
</tbody>
</table>

*Angular Deflection Test (Operational Test) measures total angular deflection while the loads are being applied to the B6-116 KA mount.*

*Post Max Load Test (Survival Test) measures total angular deflection after the 131 mph (2,231 lbs.) load was removed from the B6-116 KA mount to confirm no permanent bending or structural damage has taken place.*
<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>B6116-KA-4008X3</td>
<td>4&quot;OD [101.6mm]</td>
<td>249 lbs. [112.9kg]</td>
</tr>
<tr>
<td>B6116-KA-4508X3</td>
<td>4.5&quot;OD [114.3mm]</td>
<td>257 lbs. [116.6kg]</td>
</tr>
<tr>
<td>B6116-KA-5568X3</td>
<td>5.56&quot;OD [141.3mm]</td>
<td>275 lbs. [124.7kg]</td>
</tr>
<tr>
<td>B6116-KA-6628X3</td>
<td>6.62&quot;OD [168.3mm]</td>
<td>299 lbs. [135.6kg]</td>
</tr>
</tbody>
</table>

**BAIRD MOUNTING SYSTEMS**

WATERLOO, IA 50703

PHONE: 319-233-3561

SALES@BAIRD Mounts.com

**DESCRIPTION:**

B6-116 KA MOUNT WITH 3' MAST
<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR10-237X5</td>
<td>2.37&quot;OD [60.3mm]</td>
<td>452 lbs. [205.0kg]</td>
</tr>
<tr>
<td>UR10-288X5</td>
<td>2.88&quot;OD [73mm]</td>
<td>463 lbs. [210.0kg]</td>
</tr>
<tr>
<td>UR10-450X5</td>
<td>4.5&quot;OD [114.3mm]</td>
<td>489 lbs. [221.8kg]</td>
</tr>
<tr>
<td>UR10-556X5</td>
<td>5.56&quot;OD [141.3mm]</td>
<td>503 lbs. [228.2kg]</td>
</tr>
<tr>
<td>UR10-662X5</td>
<td>6.62&quot;OD [168.3mm]</td>
<td>528 lbs. [239.5kg]</td>
</tr>
</tbody>
</table>

Adjusts from flat to 6/12 roof pitch (26.5 degrees)
Description:
UR10 RIDGE MOUNT WITH 5' MAST

BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

DRAWN BY: JK
DATE: 10/24/13
MATERIAL: STEEL
FINISH: HDG
DRAWING NUMBER: UR10-(000)X5
DRAWN: BY
CUSTOMER
DATE
SHEET
SCALE
2 OF 2
1:40

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±
DO NOT SCALE DRAWING

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SYSTEMS IS PROHIBITED.

WWW.BAIRDMOUNTS.COM

JK STEEL CUSTOMER DRAWN BY DWG. PURPOSE MATERIAL FINISH SCALE
HDG 2OF2 10/24/13

DESCRIPTION:
UR10 RIDGE MOUNT WITH 5' MAST

BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

DRAWN BY: JK
DATE: 10/24/13
MATERIAL: STEEL
FINISH: HDG
DRAWING NUMBER: UR10-(000)X5
DRAWN: JK CUSTOMER DATE SHEET SCALE
HDG 2 OF 2 1:40

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±
DO NOT SCALE DRAWING

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IN PART OR AS A WHOLE WITHOUT THE
WRITTEN PERMISSION OF BAIRD SUPPORTING
SYSTEMS IS PROHIBITED.

WWW.BAIRDMOUNTS.COM
<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>WL2-36-237X3</td>
<td>2.37”OD [60.3mm]</td>
<td>197 lbs. [89.4kg]</td>
</tr>
<tr>
<td>WL2-36-288X3</td>
<td>2.88”OD [73mm]</td>
<td>204 lbs. [92.5kg]</td>
</tr>
<tr>
<td>WL2-36-300X3</td>
<td>3”OD [76.2mm]</td>
<td>210 lbs. [95.3kg]</td>
</tr>
<tr>
<td>WL2-36-350X3</td>
<td>3.5”OD [88.9mm]</td>
<td>210 lbs. [95.3kg]</td>
</tr>
<tr>
<td>WL2-36-400X3</td>
<td>4”OD [101.6mm]</td>
<td>215 lbs. [97.5kg]</td>
</tr>
<tr>
<td>WL2-36-450X3</td>
<td>4.5”OD [114.3mm]</td>
<td>220 lbs. [99.8kg]</td>
</tr>
<tr>
<td>WL2-36-556X3</td>
<td>5.56”OD [141.3mm]</td>
<td>232 lbs. [105.2kg]</td>
</tr>
<tr>
<td>WL2-36-662X3</td>
<td>6.62”OD [168.3mm]</td>
<td>246 lbs. [111.6kg]</td>
</tr>
</tbody>
</table>

**Diagram Description:**
WL2-36 WALL MOUNT WITH 3’ MAST

**Company Information:**
BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRD Mounts.COM

**Drawing Information:**
DRAWN BY: J.K.
06/04/13
MATERIAL: STEEL
FINnish: HDG
SHEET: 1OF2
SCALE: 1:15

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Mount is shown with the thru-wall mounting kit. Comes standard with the WL2-36 wall mount.
<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PK4008X4BC975C1</td>
<td>4&quot;OD [101.6mm]</td>
<td>102 lbs. [46.3kg]</td>
</tr>
<tr>
<td>PK4508X4BC975C1</td>
<td>4.5&quot;OD [114.3mm]</td>
<td>113 lbs. [51.3kg]</td>
</tr>
<tr>
<td>PK5568X4BC975C1</td>
<td>5.56&quot;OD [141.3mm]</td>
<td>137 lbs. [62.1kg]</td>
</tr>
</tbody>
</table>

**Description:**
(SCHEDULE 80 PIPE)
PEDESTAL KIT - 1.8M
(SC HEDULE 80 PIPE)
2.4m Ka-Band Mounts

- 2.4m Angular Deflection
  Pg 35-36

- 2.4m Ka Non-Penetrating Mounts
  Pg 37-42

- 2.4m Ka Ridgemounts
  Pg 43-46

- 2.4m Ka Wall Mount
  Pg 47-48

- 2.4m Ka Pedestal King-Post Mount
  Pg 49-50
Test Date and Location:

July 2013; Baird Mounting Systems testing facility, Waterloo, IA

Requirement:

To determine Total Angular Deflection: SQRT (Az² + El²) at highest torsion loading conditions.

Testing Details:

Baird’s testing procedures were designed to simulate the real world effects of a 2.4M (8 ft) antenna on the PL-2 KA non-penetrating mount. A stationary reference device with four (4) gauges was installed to measure total angular deflection of the PL-2 KA mount at loads simulating various wind speeds.

*PL-2 KA non-penetrating mount with four (4) gauges set to collect measurements for total angular deflection.
Baird Mounting Systems
Baird PL-2 KA Mount w/ 2.4M (8 ft) Antenna

Results from Angular Deflection Test (Operational Test)

Baird PL-2 KA Non-Penetrating Mount
2.4M (8 ft) Antenna

<table>
<thead>
<tr>
<th>WIND MPH</th>
<th>LOAD LBS</th>
<th>TORQUE FT LBS</th>
<th>AZ INCHES</th>
<th>AZ DEGREES</th>
<th>EL INCHES</th>
<th>EL DEGREES</th>
<th>TOTAL ANGULAR DEFLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>78</td>
<td>194</td>
<td>0.010</td>
<td>0.017</td>
<td>0.007</td>
<td>0.013</td>
<td>0.021</td>
</tr>
<tr>
<td>35</td>
<td>107</td>
<td>266</td>
<td>0.013</td>
<td>0.022</td>
<td>0.008</td>
<td>0.015</td>
<td>0.026</td>
</tr>
<tr>
<td>40</td>
<td>139</td>
<td>346</td>
<td>0.019</td>
<td>0.032</td>
<td>0.014</td>
<td>0.025</td>
<td>0.041</td>
</tr>
<tr>
<td>45</td>
<td>176</td>
<td>438</td>
<td>0.025</td>
<td>0.042</td>
<td>0.020</td>
<td>0.036</td>
<td>0.056</td>
</tr>
<tr>
<td>50</td>
<td>218</td>
<td>543</td>
<td>0.034</td>
<td>0.058</td>
<td>0.028</td>
<td>0.051</td>
<td>0.077</td>
</tr>
<tr>
<td>60</td>
<td>313</td>
<td>779</td>
<td>0.050</td>
<td>0.085</td>
<td>0.041</td>
<td>0.075</td>
<td>0.113</td>
</tr>
<tr>
<td>75</td>
<td>490</td>
<td>1220</td>
<td>0.083</td>
<td>0.141</td>
<td>0.070</td>
<td>0.127</td>
<td>0.190</td>
</tr>
<tr>
<td>100</td>
<td>871</td>
<td>2169</td>
<td>0.160</td>
<td>0.272</td>
<td>0.135</td>
<td>0.246</td>
<td>0.366</td>
</tr>
</tbody>
</table>

Results from Post Max Load Test (Survival Test)

Baird PL-2 KA Non-Penetrating Mount
2.4M (8 ft) Antenna

<table>
<thead>
<tr>
<th>WIND MPH</th>
<th>LOAD LBS</th>
<th>AZ INCHES</th>
<th>AZ DEGREES</th>
<th>EL INCHES</th>
<th>EL DEGREES</th>
<th>TOTAL ANGULAR DEFLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>131</td>
<td>3793</td>
<td>0.000</td>
<td>0.000</td>
<td>0.140</td>
<td>0.255</td>
<td>0.255</td>
</tr>
</tbody>
</table>

*Angular Deflection Test (Operational Test) measures total angular deflection while the loads are being applied to the PL-2 KA mount.

*Post Max Load Test (Survival Test) measures total angular deflection after the 131 mph (3,793 lbs.) load was removed from the PL-2 KA mount to confirm no permanent bending or structural damage has taken place.

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<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL2KA-S-6628X4</td>
<td>6.62&quot; O.D [168.3mm]</td>
<td>555 lbs. [251.7kg]</td>
</tr>
</tbody>
</table>

PL2KA-S-6628X4

CUSTOMER

PL2KA, SINGLE TRAY MOUNT WITH 4' MAST
PART NO. | MAST DIAMETER | WEIGHT
---|---|---
PL2KA-D-6628X4 | 6.62"OD [168.3mm] | 647 lbs. [293.5kg]

BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

PL2KA, DOUBLE TRAY MOUNT WITH 4' MAST

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ≤
ANGULAR: MACH ≤ BEND ≤
TWO PLACE DECIMAL ≤
THREE PLACE DECIMAL ≤
DO NOT SCALE DRAWING

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MATERIALS:
STEEL
HDG
FINISH
DRAWN
02/10/14
SCALE
1:25
<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL2KA-T-6628X4</td>
<td>6.62&quot; O.D [168.3mm]</td>
<td>739 lbs. [335.2kg]</td>
</tr>
</tbody>
</table>
ADJUSTS FROM FLAT TO 6/12 ROOF PITCH (26.5 DEGREES)

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR10-237X5</td>
<td>2.37&quot;OD [60.3mm]</td>
<td>452 lbs. [205.0kg]</td>
</tr>
<tr>
<td>UR10-288X5</td>
<td>2.88&quot;OD [73mm]</td>
<td>463 lbs. [210.0kg]</td>
</tr>
<tr>
<td>UR10-450X5</td>
<td>4.5&quot;OD [114.3mm]</td>
<td>489 lbs. [221.8kg]</td>
</tr>
<tr>
<td>UR10-556X5</td>
<td>5.56&quot;OD [141.3mm]</td>
<td>503 lbs. [228.2kg]</td>
</tr>
<tr>
<td>UR10-662X5</td>
<td>6.62&quot;OD [168.3mm]</td>
<td>528 lbs. [239.5kg]</td>
</tr>
</tbody>
</table>
SUPPORTING SYSTEMS.

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PREVIOUS DRAWING

UR10 RIDGEMOUNT WITH 5' MAST

DESCRIPTION:

Ur10 Ridgemount with 5' Mast

DO NOT SCALE DRAWING

BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

DRAWN BY: IKK
DATE: 10/24/13

MATERIAL: STEEL
FINISH: HDG

DRAWING NUMBER: UR10-(000)X5

SCALE: 1:40

PART NO.

SEE TABLE SHEET 1
ADJUSTS FROM FLAT TO 6/12 ROOF PITCH (26.5 DEGREES)
Wall Mount Heavy Duty, 60" Offset with 3' Mast

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>WL2HD-60-400X3</td>
<td>4&quot; O.D [101.6mm]</td>
<td>520 lbs. [235.9kg]</td>
</tr>
<tr>
<td>WL2HD-60-450X3</td>
<td>4.5&quot; O.D [114.3mm]</td>
<td>525 lbs. [238.1kg]</td>
</tr>
<tr>
<td>WL2HD-60-556X3</td>
<td>5.56&quot; O.D [142.9mm]</td>
<td>536 lbs. [243.1kg]</td>
</tr>
<tr>
<td>WL2HD-60-662X3</td>
<td>6.62&quot; O.D [168.3mm]</td>
<td>550 lbs. [249.5kg]</td>
</tr>
</tbody>
</table>
Description:
WALL MOUNT HEAVY DUTY, 60" OFFSET WITH 3' MAST

Dimensions:
- 70.5 in [1791 mm]
- 61.1 in [1552 mm]
- 60.6 in [1540 mm]
- 36.0 in [914 mm]
- 18.0 in [457 mm]
- 10.0 in [254 mm]

Material: STEEL
Finish: HDG
Scale: 1:35

Approved by: JK
Date: 06/06/13

Part No. WL2HD-60-(000)X3

See Table: SHEET1
<table>
<thead>
<tr>
<th>PARTNO.</th>
<th>MAST DIAMETER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PK550HX6BC 125C 1</td>
<td>5.50&quot;OD [139.7mm]</td>
<td>242 lbs. [109.8kg]</td>
</tr>
<tr>
<td>PK556HX6BC 125C 1</td>
<td>5.56&quot;OD [141.3mm]</td>
<td>242 lbs. [109.8kg]</td>
</tr>
<tr>
<td>PK662HX6BC 125C 1</td>
<td>6.62&quot;OD [168.3mm]</td>
<td>291 lbs. [132.0kg]</td>
</tr>
</tbody>
</table>

**DESCRIPTION:**

PEDESTAL KIT 2.4m-3.7m (SCH 40 SCHEDULE 80 PIPE)

**BAIRD MOUNTING SYSTEMS**

WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

**DRAWN BY:**

JK 06/13/13

**MATERIAL:**

STEEL

**FINISH:**

HDG

**DRAWING NO.:**

PK(000)H-6BC 125C 1

**SCALE:**

1:15

**DATE**

06/13/13

**PURPOSE:**

CUSTOMER

**SHEET:**

10F2

**DESCRIPTION:**

UNLESS OTHERWISE SPECIFIED:

- DIMENSIONS ARE IN INCHES
- TOLERANCES:
  - FRACTIONAL
  - ANGULAR: MACH\* BEND
  - TWO PLACE DECIMAL
  - THREE PLACE DECIMAL
- DO NOT SCALE DRAWING