ENGINEERING CONFORMANCE ANALYSIS:
The table shows wall bracket and anchor types for various models of HVAC outdoor equipment up to 4.5 tons that meet the following analysis:
- **Overturning**: Anchor pullout and shear strength - equipment integrity.

### Table A-2

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Weight (lbs)</th>
<th>Length C (in.)</th>
<th>Height B (in.)</th>
<th>Mount A (in.)</th>
<th>Mount B (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UMAT18HP230V1AO/BO</td>
<td>106</td>
<td>35.1</td>
<td>13.4</td>
<td>27.6</td>
<td>14.2</td>
</tr>
<tr>
<td>UMAT18HP230V1AO/BO</td>
<td>159</td>
<td>36.3</td>
<td>14.6</td>
<td>31.1</td>
<td>15.6</td>
</tr>
<tr>
<td>UMAT36HP230V1AO/BO</td>
<td>205</td>
<td>40.0</td>
<td>14.2</td>
<td>43.5</td>
<td>15.7</td>
</tr>
<tr>
<td>UMAT42HP230V1AO/BO</td>
<td>210</td>
<td>35.4</td>
<td>13.4</td>
<td>45.3</td>
<td>14.8</td>
</tr>
<tr>
<td>UMAT48HP230V1AO/BO</td>
<td>232</td>
<td>35.4</td>
<td>13.4</td>
<td>45.3</td>
<td>14.8</td>
</tr>
</tbody>
</table>

### Limit States:
- **For illustration purposes only**
- **Select Unit Type**: UMAT
- **Select Model**: UMAT48HP230V1AO/BO
- **Load (lbs)**: P=15-435, F=75-310, P=55-230

#### Beam Design:
- **Resistance to shear - unit foot**: Nominal shear per leg = 750 lbs
- **Resistance to moment and uplift**: Overturn M at bkt bottom: 250 k-in for concrete and 150 k-in for wood

### General Notes:
1. The analysis conforms to the requirements of the FBC 7th Ed. (High Velocity Hurricane Zone) and ASCE 7-16 design wind loads - other structures section 24.2.1.1. Note: wind forces are considered as most closely conforming to the pressures for solid attached signs and are designated as per Fig 24.1-1.4 in.
2. Anchors used to fasten the unit to the wall bracket are A307 or higher strength bolts. Anchors used to fasten the wall bracket to wall as indicated in the Table A-2 anchor details.
3. Anchors are poured concrete or block in the wall or stud wall as indicated. The wall bracket is specified to be either steel bolted or welded or aluminum bolted. The wall bracket is only as indicated in the detail.
4. Clearances: Fasteners in bracket metal must have edge clearances of 1-1/2 in.
5. Anchors in concrete block must be at least 12" from the edge of the wall.
6. Unit integrity, if not designated by the manufacturer for the stated wind pressures, is addressed by strapping attached to the unit and anchored to the support angles. This resists shell and frame separation.

### Wall Bracket Details:
- **Concrete Wall**: Nominal moment resist from all anchors: 138.4 k-in
- **Block Wall**: Nominal moment resist from all anchors: 101.3 k-in
- **Wood Wall**: Nominal moment resist from all anchors: 93.2 k-in

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**CHECKS OK**