WINSAFE Corp.
OPERATING INSTRUCTIONS
MODULAR BEAMS and ACCESSORIES

THESE INSTRUCTIONS MUST BE READ AND UNDERSTOOD BY ANYONE INSTALLING OR SUSPENDING EQUIPMENT FROM WINSAFE MODULAR BEAMS AND ACCESSORIES. ANY QUESTIONS MUST BE DIRECTED TO THE WINSAFE DEALER OR DIRECTLY TO THE ADDRESS BELOW.

Winsafe Corp.
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Markham, Ontario – L3R 5L9
Tel: 905-474-9340 Fax: 905-474-9341
Email: info@winsafe.com
www.winsafe.com
WARNING

1. Serious injury or death can result from improper use of this equipment. Understand all instructions for all components of your system before using them.

2. A complete suspended scaffold system is composed of four sub-systems. Ensure that you have operating instructions for each of the following four sub-systems:
   - Suspension system
   - Work platform
   - Hoist system & suspension cables
   - Fall arrest system for each person on the platform

3. All components must be inspected prior to each / daily usage.

4. Do not use equipment which has been damaged or which displays excessive wear. For replacement parts contact your local dealer or Winsafe Corp.

5. Review the rigging set up at the start of each day to ensure that no changes have been made to the counterweights, the tie back cables, or the reach of the modular outrigger beams.
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1. Introduction

A Modular Outrigger Beam is a structural member extending out from a building or structure to support a hanging scaffold. Winsafe Corp. provides various accessories and configurations for Modular Outrigger Beams (see Figure 1).

![Outrigger Beam](Image)

![Cable Truss System](Image)

![Overhang Beam](Image)

![Winsafe Corp. Modular Outrigger Beams](Image)

![Parapet Clamp](Image)

![Rolling Outrigger](Image)

![Beam Dollies](Image)

Figure 1. Modular Outrigger Beam Types
2. Outrigger Beam

Outrigger beams may be used individually or in pairs to support a hanging scaffold. Winsafe provides two-section and three section outrigger beams for overhangs up to 48 inches.

2.1. Components

Front Beam Section
- 8' long: WS OR 38
- 10' long: WS OR 36

8' Mid Beam Section
- WS OR 37

8' Rear Beam Section
- for Saddle style weights: WS OR 39
- for Longhorn type weights: WS OR 44

Beam Splice - Standard 30 inch long
- WS OR 40

Beam Splice - Standard 96 inch long
- WS OR 41

Weights

Modular Outrigger Beams generally use one of the two types of counterweight systems: cast saddle style weights; or flame cut weights. For cast saddle style weights (see Figure 2) use Rear Beam (WS OR 39) which has a slot to accept these weights. If additional counterweight is required beyond the capacity of the slot use a
Counterweight Saddle (WS OR 42) (see Figure 3) to secure the additional weights to the Rear Beam. The Counterweight Saddle must rest on top of the Rear Beam with the carriage bolt engaged into the slot of the Rear Beam.

![Counterweight Saddle](image)

**Figure 2. Rear Beam Holding Cast Weights**

**Figure 3. Rear Beam Holding Cast Weights with Counterweight Saddle**

Flame cut weights can be either used with the Rear Beam or Mid Beam as shown in Figure 4. If you are using a Rear Beam (WS OR 44), use a Longhorn Bar. Thirty inch (WS OR 43) and forty two inch (WS OR 70) Longhorn Bars are available. Alternatively you can attach the longhorn weights to the Mid Beam (WS OR 37) by using a Longhorn Tail (WS OR 109) as shown. Be sure to lock the snaplock pins. If your weight system does not fall into these two categories contact Winsafe Corp. for a custom weight holder system.

![Longhorn Weight Holders](image)

**Figure 4. Longhorn Weight Holders**

**Beam Stand - WS BS 001**

A Beam Stand is used when the parapet is not adequate to support the loaded beam. Installation of the outrigger beam on the Beam Stand is described in Section 2.4.
2.2. Outrigger Beam: Counterweight Calculation

This section describes the procedure for the selection of counterweights.

\[ P = \frac{4 \times H \times R}{L} \]

Where:
\( H \) = Hoist lifting capacity (not intended load)
\( P \) = Counterweight needed (must have 4:1 safety ratio)
\( L \) = Length from fulcrum to location of counterweight attachment point
\( R \) = Reach

**Figure 6. Counterweight Calculation**

For example:

A hoist lifts 1000 lbs. We multiply this by 4 to include the required safety ratio. Therefore, a standard 16 foot beam with 16” (1.33 feet) overhang would need a counterweight of:

\[ P = \frac{4 \times 1000 \times 1.33}{14} = 380 \text{ lbs. / beam} \]

In addition to the above mentioned calculation, counterweights can be selected from the counterweight chart.
<table>
<thead>
<tr>
<th>Reach (inch)</th>
<th>Counterweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>2 piece 16’ 1000 lb load</td>
<td>280 lb 450 lb 600 lb 800 lb 1000 lb 1220 lb 1450 lb</td>
</tr>
<tr>
<td>2 piece 16’ 1500 lb load</td>
<td>420 lb 700 lb 900 lb NA NA NA NA</td>
</tr>
<tr>
<td>3 piece 24’ 1000 lb load</td>
<td>180 lb 280 lb 380 lb 490 lb 600 lb 720 lb 850 lb</td>
</tr>
<tr>
<td>3 piece 24’ 1500 lb load</td>
<td>270 lb 450 lb 570 lb NA NA NA NA</td>
</tr>
<tr>
<td>3 piece 26’ 1000 lb load</td>
<td>60” (5’) Reach position only: 1100 lb</td>
</tr>
</tbody>
</table>

Note:-

1. Reach is the distance from the wire rope point to the front supporting point, not to the vertical surface of the building. Reach must not exceed four feet.
2. Use sufficient weights.

2.3. Installation Procedure for Outrigger Beams

The following steps outline the installation procedure for outrigger beams. The installation procedure assumes that Beam Stands are not used. Since the assembly procedure is similar for 2 piece 16’, 3 piece 24’ and 3 piece 26’ outrigger beams, a common installation procedure is presented.

1. Select the desired length of outrigger beam and counterweights required. Select the appropriate beam sections and splices.
2. Assemble the beams by installing a Beam Splice at each joint as shown in Figure 7. Ensure that the retaining clip is locked on the snaplock pin after the pin is pushed completely through the beam.
3. Position beam and install the counterweights.
4. Install safety tie backs.

Figure 7. Assembling Beams with Beam Splice
Note:- See Section 2.4. for the installation of Outrigger Beams on Beam Stands.
Notes:-
1. All beam sections are Winsafe custom extrusion 5.76 H x 3.94 W. @ 4.08 LB./FT.
2. Material safety factors exceed 4 to 1 based on material yield strength with nominal load at maximum reach.
3. Roof, slab and parapet (as applicable) must be verified as adequate to support loading.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WS OR 38</td>
<td>Front beam section - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>WS OR 39</td>
<td>Rear beam section for saddle style weights - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WS OR 44</td>
<td>Rear beam section for longhorn style weights - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>WS OR 40</td>
<td>Beam splice - Standard 30 in. long</td>
<td>1</td>
</tr>
</tbody>
</table>

Figure 8. 16' Beam Assembly
Notes:-
1. All beam sections are Winsafe custom extrusion 5.76 H X 3.94 W. @ 4.08 LB./FT.
2. Material safety factors exceed 4 to 1 based on material yield strength with nominal load at maximum reach.
3. Roof, slab and parapet (as applicable) must be verified as adequate to support loading.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WS OR 38</td>
<td>Front beam section - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>WS OR 39</td>
<td>Rear beam section for saddle style weights - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td>OR</td>
<td>WS OR 44</td>
<td>Rear beam section for longhorn style weights - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>WS OR 40</td>
<td>Beam splice - Standard 30 in. long</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>WS OR 37</td>
<td>Mid beam section - 8 ft.</td>
<td>1</td>
</tr>
</tbody>
</table>

Figure 9. 24' Beam Assembly
Counterweight or clamp to structure to provide resistance to overturning with a safety factor of 4 to 1.
- Use counterweight saddles or longhorn bar to secure additional weights as required.

Tie back in accordance with applicable regulations and safe work practices.

1. All beam sections are Winsafe custom extrusion 5.76 H X 3.94 W. @ 4.08 LB./FT.
2. Material safety factors exceed 4 to 1 based on material yield strength with nominal load at maximum reach.
3. Roof, slab and parapet (as applicable) must be verified as adequate to support loading.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WS OR 36</td>
<td>Front beam section - 10 ft.</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>WS OR 37 OR WS OR 44</td>
<td>Rear beam section for saddle style weights - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>WS OR 41</td>
<td>Beam splice - Standard 8 ft. long</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>WS OR 37</td>
<td>Mid beam section - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>WS OR 40</td>
<td>Beam splice - Standard 30&quot; long</td>
<td>1</td>
</tr>
</tbody>
</table>

5' Reach 26' Beam Assembly
2.4. Installation Procedure for Outrigger Beams on Beam Stands

1. Raise the “A” frame to the vertical position and remove the retaining saddle (see Figure 5, Figure 10).
2. Set the beam onto the support and adjust the support angle to match the beam. Install lock pin at lower end of brace to secure the support position.
3. Install the retaining saddle to fit snug over the beam and pin to secure.
4. If secondary suspension is used, a second beam can also be installed. With the beam(s) in place re-install the retaining saddle to secure the beam(s) to the stand.
5. After the beam is in place, install counterweights, tie-back(s) and suspension cable(s).

![Figure 10. Beam Stand Installation](image)

**Note:-**

1. If the Beam Stand is used on completed roofing, it will usually be necessary to provide wood or other protective materials under the feet of the stand. Care must be taken to ensure that materials under the stand cannot shift or tip when subjected to load.
2. Beam Stand is also available with 72” clearance.
3. Cable Truss System

Winsafe provides Cable Truss System configurations for 8 ft. WS OR 88, 12 ft. WS OR 115 and 14 ft. WS OR 148 reach. (Beams sold separately).

Figure 11. Cable Truss System - 8’ Reach

3.1. Components
3.2. Installation Procedure for - 8 ft. Cable Truss System

1. Installation and use of the 8’ reach Cable Truss System requires a clear space of at least 24 feet behind the parapet. The Cable Truss System is assembled in the sequence: Rear Beam, Beam Splice, Mid Beam, Beam Splice, second Mid Beam, Cable Truss Mast and Front Beam (see Figure 12).

2. Assemble the Rear Beam (WS OR 39 or WS OR 44) - Beam Splice (WS OR 40) - Mid Beam (WS OR 37) - Beam Splice (WS OR 40) - second Mid Beam (WS OR 37) by the assembly procedure in Section 2.3.1. Ensure that the retaining pins are inserted and the retaining clips are locked.
Always support directly under truss post base.
Roof, slab, parapet or other supporting surfaces must be verified as adequate to support loading.

- Counterweight or clamp to structure to provide resistance to overturning with a safety factor of 4 to 1.
- Use counterweight saddles or long horn bar to secure additional weights as required (1400 LB weight required).

Tie back in accordance with applicable regulations and safe work practices.

**Figure 12. 8 FT. Reach Cable Truss System**
3. Assemble the Front Beam with the second Mid Beam through the Cable Truss Support (SP 165). The Cable Truss Support pins to the second Mid Beam and Front Beam similar to a Beam Splice. Once again, ensure that the retaining pins are locked (see Figure 13).

4. Ensure that the cable truss wire ropes are attached to their respective Cable Truss Straps. Pin the Cable Truss Strap (SP 166) to a hole provided in the Front Beam at approximately 3 feet (see Figure 14) from the front of the beam using a Retaining Pin (SP 169). Similarly, pin the Cable Truss Strap (SP 167) with the second Mid Beam using the Retaining Pin (SP 169) replacing the normal splice pin.

5. Attach the suspension cable to the Front Beam pear link or to the optional sliding collar (see Figure 15). Only one suspension cable can be attached per beam.

6. When moving the Cable Truss System into position ensure that the support for the front of the beam is located directly beneath the support feet of the cable truss support. Do not support the Cable Truss
System on either side of the Cable Truss Support as this places the load on the aluminum beam and not on the Cable Truss Support and can cause damage to the aluminum beam.

7. Install the counterweights in accordance with the chart below (see Table 2). If the sliding collar is used then the reach is determined by measuring the distance between the sliding collar and the Cable Truss Support vertical mast. The pear link is 96 inches from the Cable Truss Support.

Note:-
1. Cable Truss Masts for Cable Truss Supports must be held on solid surfaces capable of carrying the applied load. Do not use insulating boards or other non-rigid materials under the Cable Truss Mast.
2. You must use a Sliding Collar (WSH 5) in order to work at less than 96” reach. Install the Sliding Collar as shown in Figure 15. Reach is calculated from the base of the Cable Truss Support.

<table>
<thead>
<tr>
<th>Reach (inch)</th>
<th>5’6” (60 inch)</th>
<th>6’ (72 inch)</th>
<th>6’6” (78 inch)</th>
<th>7’ (84 inch)</th>
<th>7’6” (90 inch)</th>
<th>Maximum 93~95 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counterweight (lbs)</td>
<td>870</td>
<td>1050</td>
<td>1130</td>
<td>1220</td>
<td>1320</td>
<td>1400</td>
</tr>
</tbody>
</table>

3.3. Installation Procedure for - 12 ft. Cable Truss System

1. Installation of the 12’ reach Cable Truss System requires a clear space of at least 28 feet behind the parapet. The Cable Truss System is assembled in the sequence: Rear Beam, Beam Splice, Mid Beam, Beam Splice, second Mid Beam, Inner Section, Cable Truss Support, Inner Section and Front Beam (see Figure 16).

2. Assemble the Rear Beam (WS OR 39 or WS OR 44) - Beam Splice (WS OR 40) - Mid Beam (WS OR 37) - Beam Splice (WS OR 40) - second Mid Beam (WS OR 37) - Inner Section (WS OR 113) by the assembly procedure presented in Section 2.3.1. Ensure that the retaining pins are correctly inserted and the retaining clips lock the snap lock pins (see Figure 7) during the assembly of the beams.
- Counterweight or clamp to structure to provide resistance to overturning with a safety factor of 4 to 1.  
- Use counterweight saddles or long horn bar to secure additional weights as required.

Tie back in accordance with applicable regulations and safe work practices

Always support directly under truss post base. Roof, slab, parapet or other supporting surfaces must be verified as adequate to support loading

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WS OR 37</td>
<td>Mid beam section - 8 ft.</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>WS OR 38</td>
<td>Front beam section for cable truss system - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>WS OR 39 OR WS OR 44</td>
<td>Rear beam section for saddle style weights - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>WS OR 40</td>
<td>Beam splice - Standard 30 in. long</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>WS OR 113</td>
<td>Inner section</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>WS OR 114</td>
<td>Cable truss support</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>WS OR 116</td>
<td>Cable truss wire rope front</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>WS OR 117</td>
<td>Cable truss wire rope rear</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>5/8 inch Snap lock pin</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>SP 166</td>
<td>Cable truss straps 9&quot; with pins</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>SP 167</td>
<td>Cable truss straps 16&quot; with pins</td>
<td>1</td>
</tr>
</tbody>
</table>

Figure 16. 12 FT. Reach Cable Truss System
3. Assemble the Front Beam (WS OR 38) with the Cable Truss Support (WS OR 114) through the second Inner Section. The second Inner Section pins to the Front Beam and Cable Truss Support similar to a Beam Splice. Ensure that the retaining pins are inserted and retaining clips are locked (see Figure 17).

![Figure 17. Front Beam - Inner Section - Cable Truss Support Assembly](image1)

![Figure 18. Reach with Sliding Collar](image2)

4. Pin the Cable Truss Strap (SP 166) to the hole provided in the Front Beam at approximately 3 feet (see Figure 17) from the front of the beam using a retainer pin (SP 169). When pinning the straps to the beams ensure that the retaining pins are fully inserted and retaining clips are locked.

5. Pin the Cable Truss Strap (SP 167) to the Mid Beam using the Retaining Pin(SP 169) replacing the normal splice pin (see Figure 16).

6. Attach the suspension cable to the Front Beam Pear Link or through the optional Sliding Collar. Only one suspension cable can be attached per beam.

7. When moving the Cable Truss System into position ensure that the support for the front of the beam is located directly beneath the support feet of the cable truss support. Do not support the Cable Truss System on either side of the Cable Truss Support as this places the load on the aluminum beam and not on the Cable Truss Support and can cause damage to the aluminum beam.

8. Install the counterweights in accordance with the chart below (see Table 3). If the Sliding Collar is used then the reach is determined by measuring the distance between the Sliding Collar and the Cable Truss Support vertical mast. The pear link is 144 inches from the cable truss support.

**Note:**

1. Cable Truss Masts for Cable Truss Supports must be supported on solid surfaces capable of carrying the applied load. Do not use insulating boards or other non-rigid materials under the cable truss mast.

2. You must use a Sliding Collar (WSH 5) in order to work at less than 144” reach. Install the optional Sliding Collar as shown in Figure 18. Reach is calculated from the base of the Cable Truss Support.
Table 3. Counterweight Chart for Cable Truss System - 12 ft.

<table>
<thead>
<tr>
<th>Reach (inch) (Sliding Collar Position from Base)</th>
<th>9'6&quot;</th>
<th>10'</th>
<th>10'6&quot;</th>
<th>11'</th>
<th>11'6&quot;</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>114 inch</td>
<td>120 inch</td>
<td>126 inch</td>
<td>132 inch</td>
<td>138 inch</td>
<td>141~143 inch</td>
</tr>
<tr>
<td>Counterweight (lbs)</td>
<td>1360</td>
<td>1430</td>
<td>1500</td>
<td>1580</td>
<td>1650</td>
<td>1710</td>
</tr>
</tbody>
</table>

3.4. Tie-Back Instructions

Always use wire rope and cable clamps to securely connect the beam system to a suitable anchorage. The tie back rope and cable clamps must be equal in strength to the suspension rope. The anchorage must be capable of resisting 5000 lbs.

3.5. Cable Truss Stand - For 8' Reach Cable Truss

The Cable Truss Stand (see Figure 19) is designed to support the base of the 8 ft. Reach Cable Truss. Note that the standard Beam Stand (WS BS 001) must not be used to support the Cable Truss System. The Beam Stand is used to support the rear of the Cable Truss System. The Cable Truss Stand must be installed prior to the installation of the Cable Truss System. The installation procedure for the Cable Truss System with the Cable Truss Stand is as follows:

1. Place the base of the Cable Truss Support onto the shelf in the Cable Truss Stand and rotate the upper brace into position and pin it closed (see Figure 19, Figure 20).
2. Assemble the remainder of the Cable Truss System. If you want the Cable Truss to be level, you can use a standard Beam Stand to support the rear of the Cable Truss. A Rear Beam Stand is not required if the angle of the Cable Truss System remains less than 15 degrees.
3.6. 14 ft. Reach Cable Truss System

3.6.1. Installation Procedure for 14’ Reach Cable Truss System

1. Installation and use of the 14’ Reach Cable Truss System requires a clear space of at least 24’ behind the parapet.

2. Assemble two sets of Mid Beams (WS OR 37) and a set of Rear Beams using the 30” long Beam Splice (WS OR 40). Ensure that the snap lock pins are inserted completely and retaining clips lock the snap lock pins.

3. Install one end of the Mid Beam with the Cable Truss Support by inserting the snap lock pin through the Mid Beam and Cable Truss Support. Insert the snap lock pin completely and secure with retaining clip.
Counterweight Location
2400 LB.

- Counterweight or clamp to structure to provide resistance to overturning with a safety factor of 4 to 1.
- Use counterweight saddles or long horn bar to secure additional weights as required (2400 LB weight required).

Tie back in accordance with applicable regulations and safety practices.

14' Reach Cable Truss System

Always support directly under truss post base.
Roof, slab, parapet or other supporting surfaces must be verified as adequate to support loading.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WS OR 147</td>
<td>Front Beam for 14' Cable Truss System</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>WS OR 37</td>
<td>Mid beam section - 8 ft.</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>WS OR 146</td>
<td>Cable truss support</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>WS OR 40</td>
<td>Beam splice - Standard 30 in. long</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Rear counterweight support</td>
<td>1</td>
</tr>
</tbody>
</table>
4. Install the Front Beam (WS OR 147) with the two front Mid Beams using a Beam Splice (WS OR 40). Insert the Snap Lock Pin completely and secure.

5. Pin the Cable Truss Strap (SP 166) to the Front Beam at a hole located approximately 3 feet from the front of the beam using a Retaining Pin (SP 169). Pin the Cable Truss Strap (SP 457) to the Rear Beam (both the beams) as shown using Retaining Pin (SP 169).

6. Install Cables (SP 458) to connect Cable Truss Straps and the Cable Truss Support.

7. When moving the Cable Truss System into position ensure that the support for the front of the beam is located directly beneath the support feet of the Cable Truss Support. Do not support the Cable Truss System on either side of the Cable Truss Support as this places the load on the aluminum beam and not on the Cable Truss Support and can damage the aluminum beam.
8. Install the counterweights in accordance with the table below. If a Sliding Collar is used then the reach is determined by measuring the distance between the Sliding Collar and the Cable Truss Support vertical mast. Note that you cannot have reach less than 11’-6”.

### Counterweight Chart for Cable Truss System - 14 ft.

<table>
<thead>
<tr>
<th>Reach (inch) (Sliding Collar Position from Base)</th>
<th>Maximum 1000 Lb. Load - Beam Extends 24’ Inboard of Truss Mast</th>
</tr>
</thead>
<tbody>
<tr>
<td>11’-6’ 138 inch</td>
<td>12’ 144 inch</td>
</tr>
<tr>
<td>12’ 150 inch</td>
<td>12’-6’ 156 inch</td>
</tr>
<tr>
<td>13’ 162 inch</td>
<td>13’-6’ 168 inch</td>
</tr>
<tr>
<td>Maximum 14’</td>
<td></td>
</tr>
</tbody>
</table>

| Counterweight (lbs)                            | 2050 2100 2150 2250 2350 2400 |

Note:--

1. Cable Truss Support must be supported on solid surfaces capable of carrying the applied load. Do not use insulating boards or other non-rigid materials under the Cable Truss Support.

2. You must use a Sliding Collar (WSH 5) in order to work less than 14’ reach. Install the optional sliding collar by inserting the Sliding Collar on the Front Beam.

### 4. Rolling Trolley

The Rolling Trolley Beam is used to access Sloped Surfaces. The Rolling Trolley WS OR 100 can be used in three configurations:

1. On a Straight Beam – 4’ max. Reach. – no extra components required.

2. On an 8’ Cable Truss – 8’ max. Reach – Requires an 8’ Front Beam and two sets of WS OR 123 - Beam Trolley Straps.

3. On a 12’ or 14’ Cable Truss – 10’ max. reach – Requires a 10’ Front Beam, one set of WS OR 123 Beam Trolley Straps and one Special Custom End Strap.
8' Cable Truss

EN TIRE CABLE TRUSS NOT SHOWN

12' CABLE TRUSS

BEAM TROLLEY STRAP

8' FRONT BEAM

INSTALL BEAM TROLLEY HERE

BEAM TROLLEY - WS OR 100

2 1/4

12' OR 14' Cable Truss

CUSTOM END STRAP

10' FRONT BEAM

CUSTOM 12' CABLE TRUSS SYSTEM
OR
14' CABLE TRUSS SYSTEM

INSTALL BEAM TROLLEY HERE

BEAM TROLLEY - WS OR 100

1000 LB. MAX LOAD
5. Overhang Beam – WS OR 83

An Overhang Beam (see Figure 21) is used to reach areas below an overhang or cornice. Winsafe overhang beam can reach up to 5 ft. down and 4 ft. back under an overhang.

![Figure 21. Overhang Beam]

5.1. Components – WS OR 83

- **Vertical Member - WS OR 85**
  - Holes for connecting return support and adjusting vertical height

- **Return Support (Return Elbow Bracket) - WS OR 84**

- **Horizontal Return- WS OR 86**
  - Holes for fixing return support and adjusting horizontal reach

5.2. Installation Procedure for 4 ft. Overhang Beam

1. Assemble the Rear Beam (WS OR 39 Saddle Weight or WS OR 44 Longhorn Weight) and the Mid Beam (WS OR 37) using a Beam Splice (WS OR 40) by the assembly procedure presented in Section 2.3.

2. Attach the first Return Support (WS OR 84) to the Mid Beam by pinning it to the front connecting hole by using Pins (PC 42 07) (see Figure 22).

3. Attach the Vertical Member (WS OR 85) to the first return support such that it is pinned in the desired vertical position and vertical length (see Figure 22).
4. Attach the second Return Support (WS OR 84) to the end of the vertical member using pins. Also, attach the Horizontal Return (WS OR 86) to the return support as shown in Figure 22.

5. While installing the pins, insure that they are inserted through the holes and the retaining clips are fastened to the pins.

Note:-

1. When the suspension point is located inboard of the fulcrum, the beam theoretically requires only enough counterweight to make it stable. However, you should install a minimum of 250 lbs. of counterweight to keep the beam from shifting on the roof surface. Should the suspension point be outboard of the fulcrum use the counterweight formula (see Section 2.2) to determine the correct amount of counterweight. Do not exceed 4 feet reach from the point of support on the roof (fulcrum) to the vertical member.

2. Always use wire rope and cable clamps to connect the beam system to a suitable tie-back anchorage which is in line with the beam. The wire rope and cable clips must be equal in strength to the suspension rope. The anchorage must be capable of resisting 5000 lbs.

3. It will generally be necessary to attach the suspension rope to the pear link (suspension eye) before moving the horizontal return into place. The suspension rope can be used to restrain the end of the assembly as it is moved beyond the face of the building and rotated into the vertical position. Once the system is clear of the building and fully vertical it is pulled back under the overhang. Be sure to install a tie back cable before moving the beam out over the side of the building.
Weights:
Horizontal beam -8': 32 lb
Vertical member: 27 lb
Horizontal return: 24 lb
Elbow connections: 25 lb. ea.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WS OR 84</td>
<td>Return support (Return elbow bracket)</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>PG 42 07</td>
<td>Pin</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>WS OR 85</td>
<td>Vertical member</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>WS OR 86</td>
<td>Horizontal return</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>WS OR 37</td>
<td>Mid beam section</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>WS OR 39</td>
<td>Rear beam section for saddle type weights - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>WS OR 44</td>
<td>Rear beam section for longhorn style weights - 8 ft.</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>WS OR 40</td>
<td>Beam splice - Standard 30 in. long</td>
<td>1</td>
</tr>
</tbody>
</table>

Figure 23. WS OR 83 - 4 ft. Overhang Beam
6. Rolling Outrigger

The Rolling Outrigger couples the modular components of an outrigger beam with a folding wheel system. Winsafe Rolling Outrigger Beam has two reach positions: 36”; 48”. A sliding collar (WSH 5) may be used to achieve a variable reach.

![Rolling Outrigger Diagram]

**Figure 24. Rolling Outrigger**

6.1. Components

**Rolling Wheel Assembly**

- Legs (48”) WS OR 51
- Brake assembly
- Wheel lock bar
- Pneumatic wheels

**Counterweight Support Bracket**
- WS OR 59

**Retaining Pins**
- SP 169

**Longhorn Weight Support Bracket**
- WS OR 71

**Figure 24. Rolling Outrigger Diagram**
Notes:
1. Counterweights required
   - 1200 LB for 48' reach position
   - 850 LB for 36' reach position
2. Add one extra 8' Mid beam section and extra splice to increase length of assembly reducing counterweight requirement
3. System shall be tied back to anchorage

Counterweight required:
36" Reach - 850 lbs.
48" Reach - 1200 lbs

<table>
<thead>
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<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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</thead>
<tbody>
<tr>
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<td>WS OR 36</td>
<td>Front beam section - 10 ft. for Rolling Outrigger</td>
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<tr>
<td>2</td>
<td>WS OR 37</td>
<td>Mid beam section - 8 ft. for Rolling Outrigger</td>
<td>1</td>
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<tr>
<td>3</td>
<td>WS OR 40</td>
<td>Beam splice - Standard 30 in. long</td>
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</tr>
<tr>
<td>4</td>
<td></td>
<td>Rolling wheel assembly</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>WS OR 59</td>
<td>Counterweight support bracket</td>
<td>1</td>
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<tr>
<td>6</td>
<td>PC 42 07</td>
<td>Pins</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>WSA 019</td>
<td>Pins (5&quot; LG)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Figure 25. WS OR 50 - Rolling Outrigger Beam (Saddle Style Weights)**
Notes:
1. Counterweights required
   - 1200 LB for 48" reach position
   - 850 LB for 36" reach position
2. Add one extra 8' Mid beam section and extra splice to increase length of assembly reducing counterweight requirement
3. System shall be tied back to anchorage

**Counterweight location**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WS OR 36</td>
<td>Front beam section - 10 ft. for Rolling Outrigger</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>WS OR 37</td>
<td>Mid beam section - 8 ft. for Rolling Outrigger</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>WS OR 40</td>
<td>Beam splice - Standard 30 in. long</td>
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</tr>
<tr>
<td>4</td>
<td></td>
<td>Rolling wheel assembly</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>WS OR 71</td>
<td>Longhorn weight support bracket</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>PC 42 07</td>
<td>Pins</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>WSA 019</td>
<td>Pins (5&quot; LG)</td>
<td>1</td>
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</table>

Figure 26. WS OR 72 - Rolling Outrigger Beam (Longhorn Style Weights)
6.2. Installation Procedure for Rolling Outrigger

1. Assemble Front Beam (WS OR 39) with the Mid Beam (WS OR 37) using a Beam Splice (WS OR 40) by the assembly procedure presented in Section 2.3.1. Note that these beam sections have extra pin holes to receive the rolling wheel assembly legs and counterweight support.

2. Attach the rolling wheel assembly to the Front Beam and Mid Beam using the Pins (PC 42 07) (see Figure 27). Legs must be pinned at 24” hole spacing. Be sure to insert the pins all the way through the bracket and install the retaining clips.

![Figure 27. Rolling Wheel Assembly with Front Beam](image)

3. Suspend the Counterweight Bracket at the rear of the Mid Beam by inserting pins (WSA 019) through the Mid Beam (see Figure 28). Secure the pins through the retaining clip. Installation procedure is similar for Longhorn Weight Support Bracket (see Figure 29).

![Figure 28. Counterweight Support Bracket Installation](image) ![Figure 29. Longhorn Weight Support Bracket Installation](image)

4. Position the rolling outrigger and lock the brakes by pressing down on the wheel lock bar. To release the brake, pull on the wheel lock bar to move it up allowing the wheels to turn freely. The wheels are pneumatic and should be checked periodically to insure they are properly inflated.
Note:-
1. Never attempt to roll the outrigger when the platform is suspended.
2. Always insure the outrigger is tied back to a suitable tie-back anchorage.

7. Parapet Clamp

Winsafe provides Parapet Clamps for a reach of 22 inch and 36 inch.

22" Reach Parapet Clamp

36" Reach Parapet Clamp

7.1. Components

Clamp Boom
- 56 inch long - PC 22 02

Clamp Boom
- 72 inch long - PC 36 21

Hanger - WSH 4

Front Support (Front Brace)
- PC 22 03 (22" Reach)

Front Support (Front Brace)
- (PC 36 22) 36" Reach

Back Support Clamp (22" Reach)
- Back Support - PC 22 04
- Clamp Screw Assembly - PC 22 05

Back Support Clamp (36" Reach)
- Clamp Arm - PC 42 03
- Clamp Screw Assembly - PC 42 08

Figure 30. Parapet Clamp
PC 2201

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<table>
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<tr>
<td>1</td>
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<td>PC 22 03</td>
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<td>3</td>
<td>WSH 4</td>
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<td>PC 22 04</td>
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</tr>
<tr>
<td>5</td>
<td>PC 22 05</td>
<td>Clamp screw assembly 1</td>
</tr>
</tbody>
</table>

Figure 31. 22" Reach Parapet Clamp

PC 3601

<p>| | | |</p>
<table>
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<tbody>
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<tr>
<td>2</td>
<td>PC 36 22</td>
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<td>Back support 1</td>
</tr>
<tr>
<td>5</td>
<td>PC 42 08</td>
<td>Clamp screw assembly 1</td>
</tr>
</tbody>
</table>

Figure 32. 36" Reach Parapet Clamp
7.2. Installation Procedure for 22” and 36” Reach Parapet Clamp

1. The parapet clamp has an adjustable Suspension Hanger and a Back Support Clamp by which the parapet clamp adjusts to different parapet thickness.
2. To relocate the Suspension Hanger remove the hanger bolt and move to the desired reach position.
3. To adjust the Back Support Clamp to the parapet thickness remove the pin, reposition the support clamp and reinstall the clamp pin. Push the clamp pin completely through the hole and secure the pin through the retaining clip.
4. Use the Clamp Screw Assembly to tightly secure the parapet clamp onto the parapet (see Figure 31, Figure 32).

Note:-
1. The parapet clamp can fit parapets up to 24 inches thick. Clamp devices must only be used on structurally adequate parapets or equivalent structures. Adequacy must be verified by a structural engineer.
2. When installing the parapet clamp use wire rope and cable clamps to tie the clamp back to a safe tie-back anchorage.

8. Beam Dollies

Winsafe beam dollies provide a mobile outrigger beam solution. Winsafe beam dolly can be used with up to a maximum cantilever of 4 ft. for a 2 section or 3 section modular outrigger beam configuration.
8.1 Components

- Beam Dolley - SP 238
- Beam Dolley with Saddle Weights
- Longhorn Counterweight Support - SP 485

8.2. Installation Procedure for Beam Dollies

1. Assemble Front Beam (WS OR 38) with the Rear Beam (WS OR 39) using a Beam Splice (WS OR 40) to form a Winsafe 2 section Modular Outrigger Beam (see Section 2.3.1). (You can also use these dollies with outrigger beams from a different manufacturer.)

2. Adjust the beam height by adjusting the position of the beam.

3. Place the outrigger beam on the dolleys and use the Beam Dolley saddles placed over the outrigger beam to secure them in place with the Saddle Pin (SP 244). Alternate pin holes are provided to fit other beam styles. Always use the pin hole location that provides the closest fit to the beam.

4. Prevent movement of the Beam Dolleys by locking the wheels, which is done by turning the “T” lever of the brake assembly.

5. Place the counterweights on the Beam Dolley frame (of the Rear Beam Dolley) and the Rear Beam as required (saddle style weights or longhorn style weights).
Figure 33. SP 237 - 2 Section Beam Dollies: Longhorn Style Weights
Figure 34. SP 237- 2 Section Beam Dollies: Saddle Style Weights
Tie Back to Safe Anchorage

MID BEAM SECTION - 8' WS OR 37

FRONT BEAM SECTION 10' WS OR 36

HOIST STAND ASSY. - SP 981

BEAM SPLICE STD. 30" LG. WS OR 40

BEAM DOLLY SP 237

COUNTERWEIGHTS NOT SHOWN
- 600 LB FOR MAN RATED HOISTING
- 400 LB FOR MATERIAL HOISTING ONLY
- SAFETY TIE-BACKS REQ'D FOR MAN RATED USE.

750 LB.

SP 985 - Hoisting Beam Assembly
Note:-

1. Do not exceed 4 foot outreach or maximum load limit specified on beam.
2. Secure Rear Beam Dolley to the Rear Beam by means of a Saddle Pin through the beam, engagement of counterweights or other positive means.
3. Counterweights must provide safety factor against overturning of not less than 4 to 1. Secure counterweights to the beam by positive engagement or equivalent means. Secure counterweights to dollies with ropes tied through counterweight handles.
4. Ensure that the rolling surfaces are adequate to support imposed loads.
5. Tighten the wheel locks to prevent movement once the system is in the desired work position.
6. All workers must be off the suspended platform during relocation of the beam dollies.
7. When the system is in work position safety tie-backs must be secured to a safe anchorage (5000 lbs. minimum strength) before workers board the platform.

9. Fall Arrest equipment

Fall arrest equipment must be used with suspended platforms. On four line platforms the fall arrest system may consist of a horizontal lifeline on the platform to which the operators attach their lanyards. The operators on the platforms must be wearing a full body harness with a lanyard. For two line platforms, each operator must have a complete vertical lifeline system. It consists of a vertical lifeline, a roof anchorage, and personal fall arrest equipment consisting of a full body harness, lanyard and rope grab.

All components of the fall arrest system must be inspected prior to each daily usage by the operator and periodically by a competent person. This includes the lifeline, the anchorage and the connector to the anchorage, as well as the worker’s harness, lanyard and rope grab. The rope grab, lanyard and harness should be inspected to insure they are functioning properly, and do not show signs of wear. Equipment that does not pass inspection must be removed from service.

Lifelines

Use only polyester blend, nylon or other synthetic fiber rope that has a rated breaking strength in excess of 7500 lbs. Never use natural fiber lifeline. The lifeline must be a firm lay and should not be a soft lay. The lifeline must be free of any cut, worn, burned or damaged rope strands. The lifeline must not be contaminated by dirt, lubricants, or any debris that may effect the operation of the rope grab. When the rope grab is installed on the lifeline test it by exerting a moderate force on the large ring and insure that it has locked on the lifeline. Remove the force and insure that the rope grab travels smoothly up and down the life line.

Install the lanyard on the line by attaching the double locking snap hook of the lanyard to the large attachment ring. Use only lanyards with double locking snap hooks. Test the attachment of the lanyard to the attachment ring by exerting a force on the lanyard. Once the lanyard is attached to the rope grab use the lanyard
to raise or lower the rope grab. Never hold the cam open as you are interfacing with the operation of the rope grab. Position the rope grab at shoulder height of the lifeline.

**Safety Codes**

Always follow the applicable safety codes for the region you are in. The anchorage you are attaching must be capable of supporting 5000 lbs. The anchorage should be located in line with the work area to eliminate possibility of pendulum fall. The lifeline must have a 5000 lb. rated snap hook, ladder snap or carabiner that is compatible with the anchorage.

**10. Safety Guidelines**

**Code of safe practices for Suspended Powered Scaffolds**

It shall be the responsibility of all employers and users to read and comply the following common sense guidelines which are designed to promote safety in the erection and use of suspended powered scaffolds. These guidelines are not all-inclusive nor do they supplant or replace other additional safety and precautionary measures to cover usual or unusual conditions. If these guidelines conflict in any way with any state, local or federal statute or government regulation, said statute or regulation shall supersede these guidelines and it shall be the responsibility of each employer and user to comply therewith and also to be knowledgeable and understand all state, local or federal statutes of governmental regulations pertaining to suspended powered scaffolding.

**A. GENERAL GUIDELINES**

1. Post these safety guidelines in a conspicuous place and be sure that all persons who erect, use, locate or dismantle suspended scaffold systems are fully aware of them.
2. NEVER TAKE CHANCES! If in doubt regarding safety or use of suspended scaffold, consult your scaffold supplier.
3. FOLLOW ALL EQUIPMENT MANUFACTURER'S RECOMMENDATIONS as well as all state local and federal codes, ordinances and regulations, pertaining to suspended scaffolding.
4. Survey the job site for hazards such as exposed electrical wires, obstructions that could overload or tip the suspended scaffold when it is raised or lowered, unguarded roof edges or openings inadequate or missing tieback anchorages, or the need for overhead protection where exposure to falling objects exist. These conditions must be corrected before installing or using suspended scaffold systems.
5. INSPECT ALL EQUIPMENT BEFORE EACH USE. Never use any equipment that is damaged or defective in any way. Tag damaged or defective equipment and remove it from the job site.
6. ALWAYS USE FALL ARREST EQUIPMENT when using suspended scaffolds. (See Section E for further details)
7. Erect, use, and dismantle suspended powered scaffold equipment in accordance with design and/or manufacturer's recommendations.
8. Do not erect, dismantle, or alter suspended scaffold systems unless under the supervision of a qualified person.

9. DO NOT ABUSE, MISUSE, OR USE SUSPENDED SCAFFOLD EQUIPMENT for purposes or in ways for which it was not intended.

10. USERS MUST BE TRAINED on how to safely operate equipment and how to handle emergency situations. If in doubt, consult a qualified person.

11. ERECTED SUSPENDED SCAFFOLDS SHOULD BE CONTINUOUSLY INSPECTED by the users to ensure that they are maintained in a safe condition. Report any unsafe condition to your supervisor.

12. CARE MUST BE TAKEN WHEN OPERATING AND STORING EQUIPMENT DURING WINDY CONDITIONS.

13. POWERED PLATFORMS MUST NEVER BE OPERATED NEAR LIVE POWER LINES unless proper precautions are taken. Consult the power service company for advice.

14. DO NOT WORK ON SCAFFOLDS if you feel dizzy, unsteady in any way or are impaired in any way by drugs or any other substance.

B. RIGGING GUIDELINES

1. WHEN RIGGING ON EXPOSED ROOFS OR FLOORS WEAR FALL PREVENTION EQUIPMENT. WHEN RIGGING FROM OVERHEAD SUPPORTS, SUCH AS BRIDGES, BEAMS, ETC. WEAR FALL ARREST EQUIPMENT.

2. Roof anchorages, parapet clamps, outrigger beams, or other supporting devices, including tiebacks and their anchorages, must be capable of supporting the rated load of the hoist with a safety factor of 4.

3. Verify that the building or structure will support the suspended loads with a safety factor of at least 4.

4. Overhead rigging, including counterweights, must be secured from unintentional movement in any direction.

5. Counterweights used with outrigger beams must be of a non-flowable material and fastened to the beam.

6. Outrigger beams that do not use counterweights must be installed and secured on the roof structure with devices specifically designed for that purpose.

7. Tie back all transportable rigging devices with wire rope and hardware that has strength equal to the hoist rope.

8. Install tiebacks at right angles to the face of the building and secure without slack to a structurally sound portion of the structure. In the event tiebacks can not be installed at right angles, use two tiebacks at opposing angles to prevent movement.

9. RIG SO THAT SUSPENSION POINTS ARE DIRECTLY ABOVE THE HOISTING MACHINES.

10. The platform must be secured to prevent swaying. Do not tie it to window cleaning anchors.

C. WIRE ROPE AND HARDWARE GUIDELINES.
1. Use only wire rope and attachments as specified by the hoisting machine manufacturer. Do not use wire rope that is kinked, birdcaged, corroded, undersized, or damaged in any way.
2. Be sure that wire rope is long enough to reach to the lowest possible landing.
3. Clean, lubricate and handle wire rope in accordance with the wire rope or hoist manufacturer's instructions.
4. Coil and uncoil wire rope in accordance with the wire rope or hoist manufacturer's instructions in order to avoid kinks and damage.
5. Use thimbles at all wire rope suspension terminations.
6. Use J-type clamps or swaged fittings to fasten wire ropes. DO NOT USE U-CLAMPS.
7. Tighten wire rope clamps in accordance with the clamp manufacturers' recommendations.
8. Wire ropes used with traction hoists must have prepared ends in accordance with the manufacturer's recommendations.
9. INSPECT WIRE ROPE DURING EACH ASCENT AND DESCENT. Do not expose wire rope to fire, undue heat, corrosive atmosphere, chemicals, or to passage of electrical currents or to damage by tools or handling.

D. POWER SUPPLY GUIDELINES
1. BE SURE YOUR POWER SUPPLY CONFORMS TO HOIST MANUFACTURERS RECOMMENDATIONS.
2. GROUND ALL ELECTRICAL POWER SOURCES, POWER CORD CONNECTIONS and protect with circuit breakers.
3. Use power cords or air hoses of proper size that are long enough for the job.
4. Power cord or air hose connections must be restrained to prevent their separation.
5. Tie off power cords or air hose to the suspended scaffold to prevent them from falling.
6. Protect power cords or air hoses at sharp edges.
7. Remember, air hoists require clean, lubricated air.

E. FALL ARREST EQUIPMENT GUIDELINES
1. Each person on a suspended powered scaffold must be attached to a fall arrest system at all times.
2. Each lifeline must be fastened to a separate anchorage.
3. When wrapping lifelines around structural members the lines must be protected and a suitable anchorage system must be used.
4. Protect lifelines at sharp corners to prevent chafing.
5. Rig fall arrest systems to prevent free fall in excess of six feet.
6. Lifelines must be suspended freely without contact with structural members or building facade.
7. Use a lifeline size and construction that is compatible with fall arrester and complies with applicable safety codes.
8. BE SURE FALL ARRESTER IS INSTALLED ON THE LIFELINE IN THE PROPER DIRECTION ABOVE YOUR HEAD and in accordance with the manufacturers’ recommendations.

9. Use a body support device that is properly sized and fitted.

10. Be sure body support device has a lanyard attached to the D-ring at the center of the back.

**F. SOME ADDITIONAL GUIDELINES.**

1. USE ALL EQUIPMENT AND ALL DEVICES IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

2. Do not overload, modify, or substitute equipment.

3. Before commencing work operations pre-load wire rope and equipment with the maximum working load, then retighten rigging clamps to manufacturers’ recommendations.

4. Be sure platform and cages have a proper guardrail system.

5. Secure stirrups no less than six inches from the end of the platform.

6. All components must be securely fastened to prevent them from falling off the platform.

7. Use roller bumpers or buffers to prevent damage to the structure or equipment.

8. Use care to prevent damage to equipment by corrosive or other damaging substances.

9. Clean and service equipment regularly.

10. ALWAYS MAINTAIN AT LEAST (4) FOUR WRAPS OF WIRE ROPE ON DRUM TYPE HOISTS.

11. Traction hoists must have wire rope that is long enough to reach from the highest point of support to the lowest possible landing, plus reeving lengths.

12. Do not join platforms unless the installation was designed for that purpose.

13. DO NOT MOVE SUSPENDED SCAFFOLDS HORIZONTALLY WHEN OCCUPIED.

14. When re-rigging for another drop be sure sufficient wire rope is available before moving the suspended scaffold system horizontally.

15. WHEN WELDING FROM SUSPENDED SCAFFOLDS:
   a) Be sure platform is grounded to structure.
   b) Insulate wire rope above and below the platform to protect from damage by the welding torch or electrode.
   c) Insulate wire rope at suspension point and be sure wire rope does not contact structure along its entire length.

These Safety Guidelines (Code of Safe Practices) set forth some common sense procedures for safely erecting, dismantling and using suspended scaffolding equipment. Since equipment and scaffolding systems differ, reference must always be made to the instructions and procedures of the supplier and/or manufacturer of the equipment.