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# AV CONCEPTS

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VIDEO • AUDIO • LIGHTING

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## Phoenix Convention Center

### Rigging Rules and Regulations

*In an effort to effectively ensure life safety and maintain the aesthetic and structural integrity of our ceiling, the following policies regarding rigging apply. These policies, rules, and regulations set forth in this document are meant as a guideline for the Phoenix Convention Center and may not be all inclusive, additional policies, rules, and regulations may apply.*

#### PCC Rigging Policy

- AV Concepts Inc. is the exclusive rigging contractor for the Phoenix Convention Center.
- AV Concepts, Inc. will provide all chain hoists and rigging labor (motor up).
- AV Concepts, Inc. will provide all rigging hardware (motor up) including spanner truss when needed to obtain desired rigging points.
- A rigging plot with load factors, equipment counts, and equipment positions to include cable picks must be submitted electronically no later than three (3) weeks prior to scheduled move-in. Acceptable file formats: DXF, DWG or MCD. PDF's will not be accepted. <http://www.avconcepts.com/rigging-form.php?location=pcc>
- AV Concepts, Inc. is required to approve all rigging plots (**ALL PLOTS MUST HAVE PUBLISHED POINT WEIGHTS**).
- All requests for rigging services and hardware must be received three (3) weeks prior to move-in date to ensure proper staffing and equipment. Any request not received at least three (3) weeks in advance will be subject to a **20% surcharge**. On-site orders will be installed after advance scheduled hangs are completed. A **20% surcharge** will apply.
- The number of riggers required will be decided by AV Concepts based on size and production schedule of the event.
- All special and unusual weights, motors, rigging apparatus or items not normally hung must obtain written permission from AV Concepts/PCC. Exceedingly large rigs that support abnormal loads, or non-uniform distribution of weight or hardware, may require (at the exhibitor's expense) plans that have been approved and stamped by a licensed engineer selected by the PCC.

#### AV Concepts on-site practice

- Rigging from any lighting fixtures, plumbing or sprinkler fixtures, electrical conduit, air ducts or any support mechanism is strictly prohibited.
- AV Concepts will not "dead hang" items over 100lbs or 10' in length with a scissors lift. Chain hoists or crank towers must be used.
- Cable runs that consist of three (3) or more socapex runs and are ten (10) feet or more away from the rig must use a cable bridge and motors.
- Additional weight cannot be applied to flown equipment after AV Concepts riggers leave the room.

- Under no circumstances may a person be suspended, walk or climb upon any point or supporting structure attached to the ceiling with rigging points.
- Flown equipment may only be moved by an AV Concepts rigger (riggers will remain on the call until all flown equipment is at "trim" height).
- Any weight exceeding the pre-approved limits is subject to removal at exhibitor's / production expense.
- Air wall track load limits and restrictions are set per room in the following pages.
- Soft goods such as drape over 20' must be flown or have steel "safety" cable(s) installed.

## Rigging Equipment Guidelines

- AVC chain motors will maintain a certificate of unit test based on the manufactures guidelines and ASME's standard for overhead hoist, ASME B30.16d-1997.
- All lifts must be in good repair; construction lifts or outdoor lifts will not be allowed in the PCC carpeted areas.
- All lifts used on carpeted surfaces require the use of 6-mil visqueen. No wrapping tires or "diapers" for the body of the lift will be allowed.
- All equipment and materials flown must pass ANSI guidelines and be approved.
- A steel "safety" is required on each individual item suspended with a nylon sling. Gakflex slings are exempt.
- All nuts and bolts used overhead must be rated and all overhead hardware (eyebolt etc.) must be forged unless approved by AV Concepts.

## Banner & Signage

- All signs, banners, and decorations hung in ballrooms, exhibition halls, lobbies, atriums or outside of the building must be inspected by AV Concepts rigging supervisor.
- Banner placement inside or outside of ballrooms and or meeting rooms, must be approved in advance through the PCC.
- Signs may not obstruct sprinkler heads and must have a clearance of no less than 18 inches.
- All signs must meet Fire Marshal guidelines.
- A scissor or boom lift is required to hang all banners, signs truss etc. **LIFT CHARGES ARE IN ADDITION TO THE LABOR RATES QUOTED.**

## West Ballroom

### **Beams**

- Load limits are 5000lbs, 2000lbs and 300lbs per point. See CAD drawing for specifics.
- When wrapping beams a protective wrap must be used to protect the beams painted surface along with providing protection for wire rope.

### **Air wall tracks**

- Rigging from air wall tacks shall be with approved hangers only. Load tested and certified hangars manufactured specifically for air wall tracks at PCC.
- Load limit from air wall tracks is 200lbs per point. Minimum distance between points is 4 feet. Vertical "dead hangs" only, **NO SIDE LOAD ALLOWED.** Air wall track hangers can not be used support people or live loads such as motors, pulleys, traveler tracks, etc.

## North Ballroom

### Beams

- Load limit 2500 lbs/point (vertical load only)  
Rigging shall only be attached to rigging points. Fire insulation is not to be removed.

### Air wall tracks

- Rigging from air wall tacks shall be with approved hangers only. Load tested and certified hangars manufactured specifically for air wall tracks at PCC.
- Load limit from air wall tracks is 200lbs per point. Minimum distance between points is 4 feet. Vertical "dead hangs" only, **NO SIDE LOAD ALLOWED**. Air wall track hangers can not be used support people or live loads such as motors, pulleys, traveler tracks, etc.

## South Ballroom

### Beams

- Main N-S Trusses
  - Upper chord w/in 6" of panel pt. – 150lbs. (increase to 300lbs. if adjacent panel pts. Are not loaded).
  - Upper chord between panel pts. – 75lbs. (subtract from panel point capacity).
  - Lower chord w/in 6" of panel pt. – 250lbs. (increase to 300lbs if adjacent panel pts. are not loaded).
  - Lower chord between panel pts. – 125lbs. (subtract from panel point capacity).
  - **Upper and lower chord panel pts may not be loaded in the same location simultaneously.**
  - **Maximum load** on a single E-W truss not to exceed **6000lbs.** (upper and lower chords combined).

### Catwalks

- Point loads from catwalks are not to exceed 100lbs per point. Only one point is allowed between catwalk support hangers. All points must be approved before installing by AV Concepts.

### Handrails

- Point load from handrails are not to exceed 100lbs. Only one point is allowed between catwalk support hangers.

### Ballroom Manual Rigging System

- There is no fly gallery
- Using the house fly-system requires a flyman and bridge weight loader.
- Maximum weight to be installed in an arbor is 2000lbs. Use of "trailers", sandbags and substitution of steel weights for other material is not permitted.
- Maximum load per cable is 750lbs.
- Point loads on battens (such as trusses) are to be attached only at lift line attachment points and the load at any one point is not to exceed 750lbs.
- Nothing is to be hung from the leg or side curtain tracks. All items hung on these line sets are to be attached only to the batten and only in a manner so as not to bend or damage the tracks.
- A flyman is to load, unload, or work only one line set at a time.
- Spreader plates are to be installed every 12 weights. All unused spreader plates are to be placed under the hold down plate at the top of the counterweight stack.
- All line sets are to be secured during loading and unloading.
- Unbalanced loads are not permitted except during loading or unloading.
- Stored weights are not to be stacked more than 6 inches high and under no circumstances to be stacked higher than the kick board.
- All rigging loads and connections shall be subject to the approval of AV Concepts.
- Any changes to the rigging system or loose equipment shall be restored at the end of the event following load-out. Any remaining tape, tie line, trim marks, or spike marks on the stage deck, battens, or control lines shall be removed during restore.

## Exhibit Halls A-E

### Beams

- Load limit is 2500lbs per point.
- When wrapping beams a protective wrap must be used to protect the beams painted surface along with providing protection for wire rope.

### Air wall tracks

- Rigging from air wall tacks shall be with approved hangers only. Load tested and certified hangars manufactured specifically for air wall tracks at PCC.
- Load limit from air wall tracks is 200lbs per point. Minimum distance between points is 4 feet. Vertical "dead hangs" only, **NO SIDE LOAD ALLOWED**. Air wall track hangers can not be used support people or live loads such as motors, pulleys, traveler tracks, etc.

## Exhibit Halls 1-6

### Beams

- Load limit is 2500lbs per point.
- When wrapping beams a protective wrap must be used to protect the beams painted surface along with providing protection for wire rope.

### Air wall tracks

- Rigging from air wall tacks shall be with approved hangers only. Load tested and certified hangars manufactured specifically for air wall tracks at PCC.
- Load limit from air wall tracks is 200lbs per point. Minimum distance between points is 4 feet. Vertical "dead hangs" only, **NO SIDE LOAD ALLOWED**. Air wall track hangers can not be used support people or live loads such as motors, pulleys, traveler tracks, etc.

## Exhibit Halls F&G

### Beams

- Main E-W Trusses
  - Upper chord w/in 6" of panel pt. – 150lbs. (increase to 300lbs. if adjacent panel pts. Are not loaded).
  - Upper chord between panel pts. – 75lbs. (subtract from panel point capacity).
  - Lower chord w/in 6" of panel pt. – 250lbs. (increase to 300lbs if adjacent panel pts. are not loaded).
  - Lower chord between panel pts. – 125lbs. (subtract from panel point capacity).
  - **Upper and lower chord panel pts may not be loaded in the same location simultaneously.**
  - **Maximum load** on a single E-W truss not to exceed **6000lbs**. (upper and lower chords combined).
- N-S Bridging Members
  - **40lbs. maximum** (subtract load from connecting panel point capacity).
- When wrapping beams a protective wrap must be used to protect the beams painted surface along with providing protection for wire rope.

### Air wall tracks

- Load limit from air wall tracks is 200lbs per point. Minimum distance between points is 4 feet. Vertical "dead hangs" only, **NO SIDE LOAD ALLOWED**.