



The following paragraphs are recommended for inclusion in any contractual specification. By including the wording below, the consultant is mitigating liability associated with acting as the Qualified Professional.

### **Section 1**

#### **Overhead suspension hardware specification guidelines:**

- All suspension hardware shall be rated for use in overhead suspension applications. Manufacturer certifications for overhead suspension application shall accompany all suspension hardware, **or** a licensed structural engineer shall approve all suspension hardware.
- Overhead suspension hardware shall comply with 1997 Uniform Building Code section 16xx, ASME B30.20, UL 1480 31.3, ANSI E1.2-2000 and all applicable local building and safety codes including, but not limited to, OSHA 1910,184 and OSHA 1926.251. If site is located in a seismic zone, then the installation shall comply with 1997 Uniform Building Code 1610.
- Overhead suspension hardware must be of a type that includes product traceability controls and is designed and fabricated by a vendor accustomed to and insured for manufacturing structures intended for overhead suspension.
- Overhead suspension hardware must be designed using a minimum of a 5:1 design fac based on ultimate load.  
Where moving wire rope components are incorporated, a design factor of 8:1 based on ultimate load shall be applied to those components.
- At no time shall any party act in a manner to reduce the protections of the safety requirements listed above, nor shall any party act in a manner as to jeopardize the safe installation, operation, or maintenance of the overhead suspension hardware.
- A regular inspection program, as directed by the manufacturer of the hardware, shall accompany the use of any overhead suspension hardware.
- Only a qualified professional shall design the appropriate overhead suspension hardware and system use.
- Only a competent professional shall conduct installation, use, and inspection of the overhead suspension hardware.

### **Section 2**

#### **Overhead suspension system specification guidelines:**

In addition to Section 1 requirements:

- Overhead suspension systems shall be designed such that primary suspension points are separate from a secondary and redundant suspension point. In the event any single suspension point should fail the secondary suspension point shall support the entire load without failure. In the event there is no redundant suspension point, a design factor of 10:1 shall be incorporated for the non-redundant component.
- Overhead suspension systems shall be designed such that a licensed structural engineer approves the attachment of the suspension system to the building structure.
- All components of an overhead suspension system shall be rated and certified for overhead suspension by the manufacturer of each component, **or** by a licensed structural engineer, **or** both.
- A written inspection program, as directed by the manufacturer of the hardware or the structural engineer, shall accompany the use of any overhead suspension system.

### **Section 3**

#### **Loudspeaker rigging system specification guidelines:**

In addition to Section 1 and Section 2 requirements:

The loudspeaker rigging system shall be complete and as specified, and shall be provided by ATM Fly-Ware per job reference \_\_\_\_\_. ATM Fly-Ware can be contacted at [www.atmflyware.com](http://www.atmflyware.com). Loudspeaker rigging system hardware and components not included in the quotation shall be provided in accordance with Section 1 and Section 2.

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