



IWEISS

WIRE TENSION GRID MANUAL

**Anyplace Theater
Job Name**

MONTH, 2020

IWEISS.COM

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This tension wire grid was designed to support a maximum frame compress of 5,000 lbs, and for the wire rope to not deflect more than 2 inches under a maximum concentrated load of 150 lbs, and to support a load of 40 lbs per square foot.

The wire rope grid consists of 1/8-inch wire rope in a 2-inch woven mesh, supported by steel framing, hung by 1½ inch #40 pipe from structural members in the ceiling. All metal components are finished per job specifications.

The tension wire grid is designed to support personnel and allow unlimited access over the space. It is not designed to support equipment. At no time should the wire rope be used as an attachment point. 1½ inch #40 pipe has been provided to be a flexible solution in creating anchor locations. You can attach these pipes to the hangers by using the scaffold clamps. When setting the horizontal span pipes in place, always use a wrench to tighten both sides of the scaffold clamp. The pipe should protrude past the clamp by at least 1 inch. Only anchor between clamps on the pipe. Do not attach to the tube steel framework below the gridiron; its design is to provide tension in conjunction with the wire rope.

It is normal for this wire rope to stretch and require re-tensioning. In the event that a particular wire is more tense than the others, notify iWeiss immediately.

The fittings on the wires should not be adjusted except for maintenance calls to address grid tension. Any loose fitting should be reported immediately. Any broken wires should be reported immediately.

When working on the grid, be aware of activity on the floor below. Ground floor personnel should be forewarned of grid activity prior to entering the room. When possible, limit the traffic under workers.

ALWAYS keep loose objects in a container or tethered in some fashion.

Never attempt to adjust or alter the hanging rods in any way.

Never perform any metal work such as welding or grinding near the grid without protection.

Never lubricate the grid.

Always keep the safety pipe railings in place. If the railing is removed, make everyone aware of this hazard and replace it as soon as possible.

Do not allow horseplay. Tie loose hair back. Do not wear loose clothing. Wear hard-soled shoes. Always work without the radio and in adequate work light.