

## PRODUCT APPLICATION SHEET



Tight control of the vertical and horizontal positioning of this force-draft cooling tower is provided by six constrained spring isolator mounts (Vibro-Acoustics' model "CSR"), matched in height and selected to provide similar deflection at each point in the I-beam support frame. In this example, the middle springs are larger than the springs in the corners.

### Minimizing displacement

This type of isolator mount minimizes stress on pipe connections by providing lateral resistance to wind loading and controlling vertical displacement caused by draining water-filled equipment for maintenance. Nuts, threaded onto bolts extending down from the support plate through plates at the top of the two stanchions, restrain the spring from pushing up on the drained equipment.

The isolator design also allows equipment to be "dry" mounted by using a removable spacer placed between the supporting plate and the stanchions that is discarded after the equipment has been filled and the springs have been properly adjusted. This ensures that the equipment never moves more than a fraction of an inch.

### Seismic events

Seismically-rated CSR spring isolator mounts can withstand the multi-directional forces created during an earthquake when properly specified and installed. Similar to the mounts shown here, they constrain the movement of the supported equipment and ensure its continued operation during and after an event.



Vibro-Acoustics' application engineers provide specifications, details and instructions for each isolator model to indicate proper positioning and installation methods to meet project and code requirements. We are always available to assist you with any noise, vibration, or seismic restraint concerns you may have.

