



INSTALLATION SOLUTIONS

GB-0202-1.1

**ST44-8.4 SPRING ISOLATOR PRODUCT DATA**

The UNISORB ST44-8.4 Spring Isolator uses high performance steel springs to provide predictable and consistent isolator performance. The pivotal element of these isolators are the springs. The metallurgy and manufacturing processes used to manufacture the springs are identical to that used in the manufacture of springs for suspension systems in the challenging automobile racing environment. ST44-8.4 Spring Isolators provide a durable solution to environmental vibrations.

UNISORB ST44-8.4 Spring Isolators are assembled in a pre-loaded condition. Pre-compressing the isolators means that they will provide stable support during the fabrication of the support deck and placement of rebar and concrete thus facilitating an easier construction process. Each spring is wrapped with a nylon mesh to damp potential high frequency ringing that may occur within each spring. A 2mm thick resilient bearing pad is used on the top and bottom of each spring isolator assembly to accommodate modest irregularities of the installation site.



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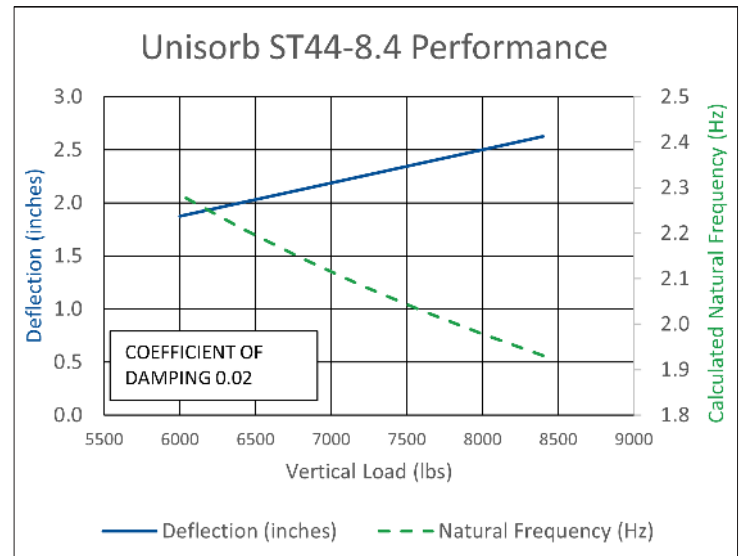


UNISORB offers many engineering services including Foundation Design, On-Site Vibration Survey, Application Engineering, etc. to best provide all information required for a successful project. Vibration Survey services are often performed to establish the frequencies and amplitudes present at the proposed machine installation location to identify the level of isolation performance required.

Modern manufacturing facilities can create challenging operational conditions for precision equipment. Large vibrations generated by nearby processes readily travel through existing soils and structures. When precision is at a premium, consider UNISORB's solution that will virtually eliminate vibrations generated by industrial operations; the UNISORB ST44-8.4 Spring Isolator.

The ST44-8.4 Spring Isolator can be configured to support the weight of virtually any size machine/foundation combination. Each unit can support up to 8400 lbs. and will provide a consistent natural frequency in the 2 to 3 Hz range. This makes the ST44-8.4 Spring Isolator ideal for severe environmental installations of precision equipment such as:

- Coordinate Measuring Machines
- Precision machining centers
- Dynamometers
- Metrology equipment
- Grinders
- Gearboxes
- Sound enclosures
- Industrial fans
- Rate tables
- Shakers



Ref: Unisorb Dwg. Nos. 51ST-0002 and 409940-21



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