Gym Floor Damped Spring NXS-14

Up to 25mm Static Deflection, Damped Spring

APPLICATION

For gym floors where a high degree of isolation is required for applications where there is dropping of weights or other high impact loads.

FEATURES

- Internal damping rubber minimises oscillation under impact loads
- Rubber cup to reduce high frequency vibration transmission
- Non-slip rubber cups

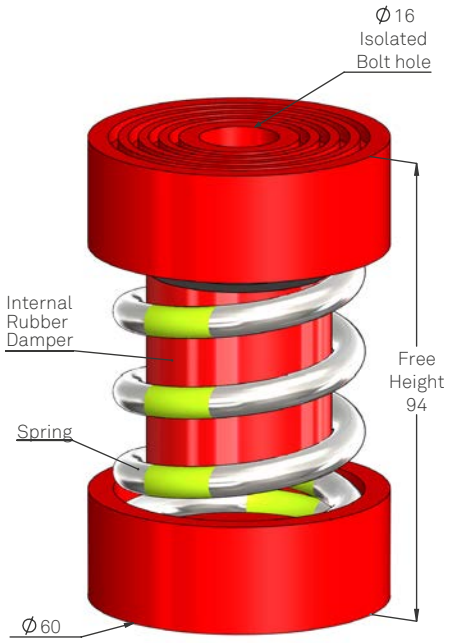
ELEMENT TYPE

- NXS-14 or NXS-16 spring mount
- Max. load up to 175kg
- Up to 25mm maximum static deflection

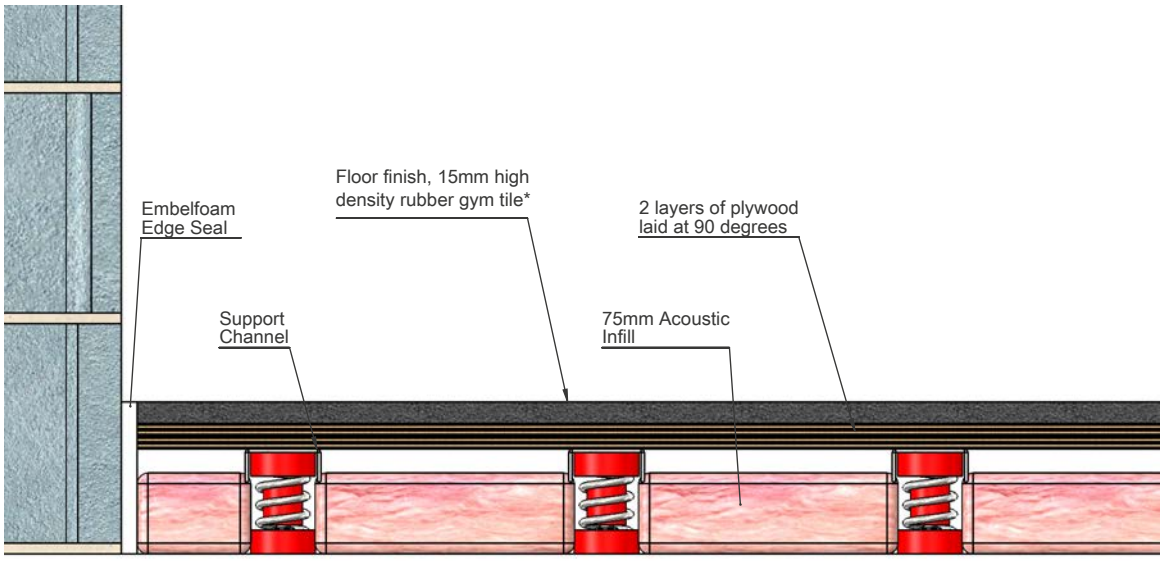
ACOUSTICAL ISOLATION

Steel spring mounts provide effective isolation of mechanical vibration. However, the spring itself has its own inherent surge frequency depending on its physical geometry and material properties. As such, it is possible to transmit certain audible level frequencies.

To minimise these audible level transmissions, all mountings are fitted with a resilient rubber cup that provide a theoretical effectiveness of over 95% in isolating such transmissions.



NXS



*Low density underlay may be required for free weight areas.

NXS INSTALLATION EXAMPLE

MOUNT SELECTION

When selecting mounts, it is recommended that the calculated floor mass is increased 10-20% to avoid overloading of any mount.

TECHNICAL ASSISTANCE

All Embelton offices can provide detailed technical assistance on the use of this product in specific applications.

FINISH

Steel surfaces are embedded in the rubber mount cups. The springs are zinc-plated for corrosion resistance.

CONDITIONS OF SALE

These products are sold subject to the published Embelton General Conditions of Sale, copies of which may be inspected on request.

INSTALLATION

1. Mark gridlines for your specific application. Contact Embelton for a custom layout.
2. Pack springs to the same height and adhere packers to slab.
3. Adhere spring cups to packers and install springs.
4. Place Embelfoam Edge Seal around the perimeter of the room and all columns and penetrations.
5. Lay support channels on the NXS mounts.
6. Insert acoustic insulation between the channels.
7. Screw a layer of plywood to the top of the channels. The plywood should be laid at 90 degrees to the support channels.
8. Screw a second layer of plywood to the first layer at a 90 degree rotation.
9. Adhere a layer of 20mm ImpactaMat 900 to the plywood surface.

SPECIFICATION

Springs shall have 25mm deflection with rubber cups for high frequency isolation. They shall have internal damping rubber to minimise oscillation. They shall be type NXS-14 as supplied by Embelton.

NXS-14 SPRING LAYOUT

NXS-14 TYPICAL INSTALLATION