

Freedom Step

Acoustical and Impact Isolation Subfloor Panels



Superior impact isolation for sound control, comfort and user safety

Freedom Step & Freedom Step Pro provide a quiet place in residential or commercial spaces where dance, exercise and weightlifting activities create bothersome impact noise.

Freedom Step systems also provide superior sprung floor cushioning to reduce injury and fatigue.

Freedom Step floor panels are designed to isolate gyms and dance studios from the rest of the building structure. The underside of each panel is fitted with nine pyramid-profiled deceleration isolation pads. These engineered pads absorb impact energy and compensate for varying differences in the live loads across the floor surface.

Contact with the existing floor is reduced by more than 99% - Making Freedom Step a true floating and sprung floor. This results in a dramatic reduction of sound transfer and an increase in user comfort and safety.

The Freedom Step System provides the highest acoustic isolation available of any floating or sprung floor. Key to its performance are the pyramid-profiled isolators of compressible elastomer, surrounded by acoustic absorptive media that mitigates cavity resonance.

ACOUSTIC PERFORMANCE

FREEDOM STEP DELTA IIC – 35
FREEDOM STEP PRO DELTA IIC – 44

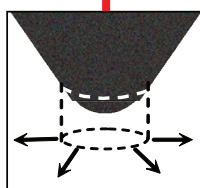
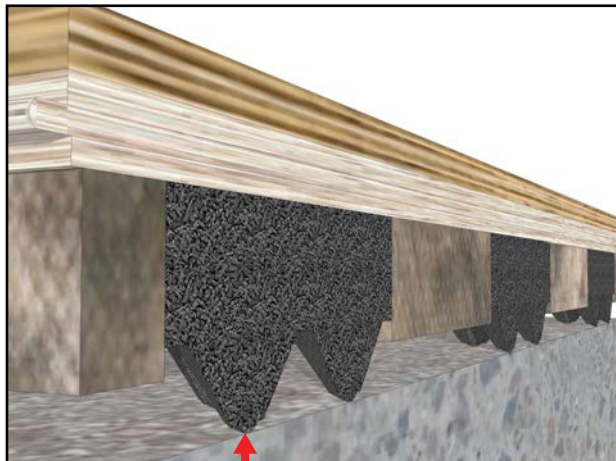
Freedom Step and Freedom Step Pro panels were tested on a bare six inch concrete slab – with NO drop ceiling beneath it.

The test assemblies consisted of plywood and maple flooring (¾" flooring over ¾" plywood) screwed to the top of the 23-1/4" x 23-1/4" tongue and groove OSB board.

The Delta IIC value is determined by subtracting the IIC value of the bare concrete slab from the IIC value of the whole assembly (flooring, plywood and Freedom Step panels over concrete slab). The resultant number is the IIC performance contribution of the Freedom Step panels with finished flooring.

Base IIC (Impact Insulation Class) Figures:

Test Results Available Upon Request.



Pyramid-Profiled Deceleration Isolation Pads reduce contact with the existing floor by more than 99%

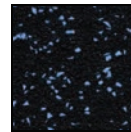
FEATURES

- Freedom Step comes in easy to handle panels - nominal 2' x 2' (actual 23-1/4" x 23-1/4").
- Tongue and Groove edge design lets you quickly and easily fit panels into place.
- Panels are made with nine 1" or 2" thick pyramid-profiled isolation pads embedded in a layer of acoustical insulation.
- Sturdy 5/8" engineered wood core.
- Floats over wood or concrete sub floors.

BENEFITS

- Safely reduces stress impact up to 500 lbs. (227 Kgs) per panel.
- Can be used for commercial / residential dance or gym room sub floors - wherever impact is a concern.
- Isolation pads raise floor up off cold concrete surfaces - floor is dryer and warmer.
- Freedom Step can be finished with any type of flooring - except tile.

Typical Floor Finishes



SPORTS



DANCE



LAMINATE



HARDWOOD

TECHNICAL SPECIFICATIONS

Freedom Step:

Dimensions: 23 1/4" x 23 1/4" x 1 5/8" thick
 Weight: 8.25 lbs. (3.75 Kg)
 Materials: 5/8" T&G Oriented Strand Board
 3/4" Ecobatt Insulation
 1" (Lift) Pyramid-Profiled Isolators

Freedom Step Pro:

Dimensions: 23 1/4" x 23 1/4" x 2 5/8" thick
 Weight: 9.9 lbs. (4.5 Kg)
 Materials: 5/8" T&G Oriented Strand Board
 1 1/2" Ecobatt Insulation
 2" (Lift) Pyramid-Profiled Isolators