



Case Study



Property Owner

1BEAT DXB



Main Contractor

Evolve Interiors



Architect

Evolve Interiors



Acoustic Consultant

AME Consulting &
Technical Services

OVERVIEW

1BEAT is a boot camp gym located on the ground floor of the One Central Building in Dubai Financial District.

Although the type of weights used are relatively light, there was a concern for the transfer of structure-borne noise to the above office spaces.

Stravigym HP

- Customized system
- Just 70 mm build-up height (excl. floor covering)
- Suitable for fitness areas with medium impact energy (up to 600 N.m)



SOLUTION

Due to a restriction in buildup and budget, the system adopted was the [Stravigym HP](#). The solution was finished with a 15 mm rubber flooring.

Comparing the L_{Amax} noise level magnitudes from the impact test in the receiver location in the office space directly above, there was an improvement of approximately 22 dB. This improvement was sufficient given the type of gym application.

AT A GLANCE

CHALLENGES

- Limited available height
- Limited budget
- Impact noise generated by weight drops in the free weight area

BENEFITS

- L_{Amax} improved about 22 dB
- Cost-effective solution
- Low-profile solution

