

House of Hungarian Music

Budapest, HU



Case Study



Property Owner

Városliget Zrt.



Main Contractor

Magyar Építő Zrt.



Architect

Sou Fujimoto Architects & M-Teampannon



Acoustic Consultant

Nagata Acoustics & Gusztáv JÓZSA & Éva ARATÓ



Structural Engineer

KENESE Mérnöki Iroda Kft.

OVERVIEW

Sou Fujimoto's House of Hungarian Music, located in Budapest's City Park, is a contemporary cultural landmark dedicated to music in all its forms. The new cultural center is a place to experience, learn and practice music and its history. The striking building with its glass wall and overhanging roof, blend in perfectly with its surroundings, offering a feeling of standing under a tree canopy.

The 5.000 m² House of Music doesn't only have music halls, but also spaces for exhibitions and conference rooms. The special feature of the building is the so-called 'Sound Dome,' a light-weight underground hemisphere where all kinds of sound effects can be created and enjoyed by those visiting the center.

Stravifloor Prefab, Stravifloor Channel

- Pre-manufactured modular floating floor solution that offers excellent structure-borne and airborne noise isolation thanks to the spring bearings (Stravifloor Prefab)
- Isolated steel floor batten system with enhanced stiffness (Stravifloor Channel)

Stravilink QR, Stravilink CC60

- Acoustic brackets designed to isolate dry wall constructions from the supporting wall, thereby improving the acoustic performance of the wall construction (Stravilink QR)
- Elastomer acoustic hangers designed to suspend acoustic ceilings using profiles (Stravilink CC60)



SOLUTION

Because of the unfortunate floor layout, with a machinery room right next to the Sound Dome, and the need for premium acoustics in sound-sensitive areas such as the studios, several box-in-box structures were designed, using [Stravifloor Channel](#), [Stravilink WallFix](#), [Stravilink QR](#) and [Stravilink CC60](#) noise and vibration isolation systems. To minimize the structure-borne noise generated by the free-standing machinery units and attached pipes, their supports were resiliently fixed, as well as the elevator guide rails.

The machinery plant room's box-in-box structure, next to the Sound Dome, was built on a [Stravifloor Prefab](#) system with spring isolators. The walls and roof were all supported by the isolated floating floor.

The steel supports of the roof-top machinery units were resiliently fixed with [Stravimech Fix](#) systems and also the pipes and the elevator guiding rails.

On the 2nd floor the studio's box-in-box structures were done by [Stravifloor Channel](#), [Stravilink QR](#) and [Stravilink PHR](#) elements.

Photography: György Palkó

AT A GLANCE

CHALLENGES

- System with less than 5-6 Hz resonant frequency

BENEFITS

- High load bearing capacity and wide range of materials
- Systems easily adapted to different load-distribution (etc. under walls and mid of room)

350 m²

Box-in-box
with [Stravifloor Channel](#), [Stravilink QR](#), [CC60](#) & [PHR](#)

145 m²

[Stravifloor Prefab](#)
(with springs)

600 m²

[Stravifloor Mat](#)
(various types)

2 elevators

equipped with
[Stravimech ElevatorFix](#)

