



Case Study



Property Owner

Kodály Centre



Main Contractor

Magyar Építő Zrt.



Structural Engineer

BEND-STAT Kft. / Dinám Kft.



Architect

Építész Stúdió Kft. / Mérték Stúdió Kft.



Acoustic Consultant

Gusztáv Józsa / Róbert Csott

OVERVIEW

Pécs, in Southern Hungary, was one of the cities awarded the title "European Capital of Culture" in 2010 which in turn stimulated several exciting new building developments. Several public areas and cultural facilities were renovated and a new concert hall, the Kodaly Centre was built.

The Kodály Centre is situated between national road 6 and a railway track and, in order to protect the acoustic integrity of the building, the acoustic consultants specified a box-in-box system.

Stravibase SEB, Stravifloor Prefab/Channel

- Structural elastomeric bearing for the structural isolation of buildings (Stravibase SEB)
- Pre-manufactured modular floating floor solution (Stravifloor Prefab)
- Isolated steel floor batten system (Stravifloor Channel)



SOLUTION

Isolation of the 500mm thick concert hall base slab was achieved by resilient pads glued to lost formwork panels ([Stravifloor Prefab](#)) and extra point and line loads of columns and walls were supported by pads with a load capacity of 6-8MPa. Calculations indicated that the softer pads would take the net load of the base slab whilst the harder pads would start taking up loads later, during the construction of the columns and walls.

The orchestra rehearsal room on the second floor was also successfully isolated using the box-in-box system. Coolers and larger ventilation units were isolated with [Stravimech Bearing](#), using both metal springs and elastomer pads, to prevent noise and vibration from being transmitted throughout the building.

AT A GLANCE

CHALLENGES

- Located between a national road and a railway track
- Need for premium acoustics and soundproofing
- Extra line loads from columns and walls

BENEFITS

- Quick and easy to install systems
- Long lifespan
- Different solutions to cope with varying heights and loads

140 m²
Stravibase SEB
Stravifloor
Channel

1050 m²
Stravibase SEB
Stravibase
Prefab

