



Case Study



Property Owner

Hungarian Reformed Church, Nyíregyháza



Main Contractor

Épadker Kft.



Architect

TISZA Architects



Structural Engineer

Zsolt MÉRY (Pro-Stat Kft.)



Acoustic Consultant

Attila NAGY (Reziduum Kft.)

Stravibase Spring

- Spring bearings for structural isolation of buildings and structures
- Easily adapted to meet different loads and performance requirements
- Consists of single or double nested springs with a top and bottom cover plate and antislip layer

OVERVIEW

Jókai Mór Reformed School in Nyíregyháza was named after Móric Jókay de Ásva, one of Hungary's most well-known novelists and revolutionaries, a man who even in his own time has often been compared to his British contemporary Dickens.

Over two years ago, in early 2020, CDM Stravitec was contacted by the acoustical consultant working on soundproofing the school's new gymnasium. The possibility of noise and vibration isolation for the complete building structure was discussed as the gym was located directly above the classrooms.

After an analysis of the project, Stravibase VHS and Stravibase Spring bearings were proposed to decouple the gymnasium from the rest of the school building. However, in the end it was decided to go exclusively for 3.5 Hz spring isolators to reach the highest possible insulation performance.



SOLUTION

88 **Stravibase Spring** isolators were installed on a newly constructed reinforced concrete slab. During the construction and installation phase, a 200 mm thick lost formwork was used between the spring units that could cope with the load of the liquid concrete and that could be removed after the concrete cured.

Familiar with the Egcovoid® void former panels, we proposed a solution using these panels in combination with other layers to cope with the challenge.

Photography: ATTILA VARGA Architectural Photographer

AT A GLANCE

CHALLENGES

- Classrooms located directly below the gym
- Formwork of upper slab was made with the help of Max Frank's Egcovoid® void former panels

BENEFITS

- High acoustical performance thanks to the use of 3.5 Hz steel spring isolators
- Long-lasting and maintenance-free structural solution

± **7.500 kN**
ADL

88 pcs
Stravibase
Spring

