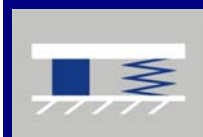


National Theatre Budapest, HU

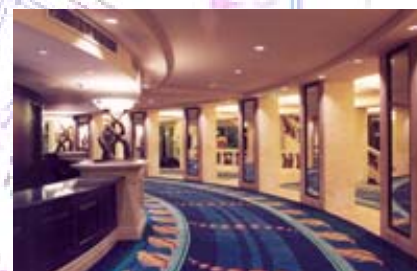


Floating Floor
CDM-ISO-FLOAT



CDM Partner
Architect
Owner
General Contractor
Acoustic Consultant
Installation

CDM Magyarország = CDM Hungary
Mária Siklós
City of Budapest
ARCADOM
Mrs. Karsai
2000 - 2001



Construction of the National Theatre in Budapest was started in September 2000. Functionally, the theatre is composed of three parts: there's a central circular area (with the house and studio stage), surrounded by the areas with spectator facilities, and the third structural part is the service wing built in a U-shape around the main stage. The total area of the building is 20.844 m² including the open-air stage.

CDM has delivered the system **CDM-ISO-FLOAT** for the big stage room (approx. 211,0m²) and the stock room (approx. 54,4m²) of the National Theatre.

The CDM-ISO-FLOAT system consists of the following:

Formwork panel in high-quality fibercement board of 28mm thick, onto which elastic bearings in CDM-HR (microcellular composite material, based on natural rubber and small cork grains) are glued according to the static and dynamic loads to be taken up. Unloaded dimensions of these bearings = 60x60x60mm³. An overheight plate in fibercement with dim. 90x90x12mm³ is glued in-between the elastic bearing and the formwork plate, in order to create a higher acoustic void. In-between the bearings a layer of mineral wool is glued (40mm thick, density approx. 20kg/m³) to provide some absorption in the acoustic void. Lateral surfaces (columns, walls) have been treated with a rockwool-based package in order to create total decoupling of the suspended structure.

Acoustic measurements after completion of the building confirmed the high performance of the system.

Installation on site



CASE STUDY – CDM-ISO-BUILDING

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