

Kodály Centre Concert Hall, Pécs HU

CDM-SEB / CDM-FLOAT / CDM-LAT



Application	“Box in a box” construction for a concert hall
Architect	Építész Stúdió Kft. / Mérték Stúdió Kft.
Structural engineer	BEND-STAT Kft. / Dinám Kft.
Acoustic consultants	Gusztáv Józsa (permit plans) Róbert Csott (execution plans)
General contractor	Magyar Építő Zrt. & ARCADOM Építőipari Zrt.
Contractor	Épszerk-Pannónia Invest Kft.
Details	Base slab 1050 m ² CDM-SEB + CDM-FLOAT Gallery 140 m ² CDM-SEB + CDM-LAT
Acoustical Design Load	120 MN



• 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 Kodály 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.

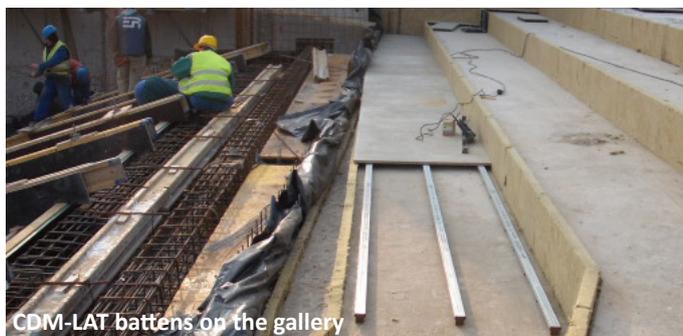
• Isolation of the 500 mm thick concert hall base slab was achieved by resilient pads glued to lost formwork panels (CDM-FLOAT) and extra point and line loads of columns and walls were supported by pads containing kevlar fibres which were able to cope with loads up to 6-8 MPa.

• 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. Chillers and larger ventilation units were isolated with CDM-MACHINE-CONTACT bearings, using both metal springs and elastomer pads, to prevent noise and vibration from being transmitted throughout the building.



CDM-FLOAT panels for the base slab during installation



CDM-LAT battens on the gallery



Pads of varying height and load bearing capacity

Building

Project Reference