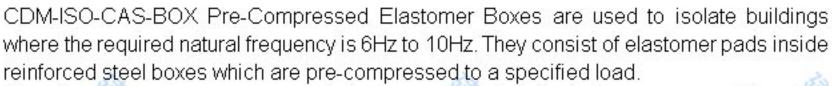


CDM



CDM-ISO-CAS-BOX



The advantages of pre-compressed elastomers over simple elastomers are as follows:



The elastomers are pre-compressed to a percentage of the overall supported mass (say 80%) therefore minimising deflection during construction (deflection only occurs after the precompression has been exceeded) - this is especially important when low frequency solutions are required as this results in high deflections

The boxes can be neutralised, replaced or inserted after construction. It is essential, however, that all boxes are accessible and this should be considered in the scheme design

Precompression of the box phase of the building.

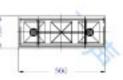


CDM-CAS box

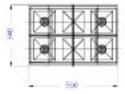


CDM-CR bearing





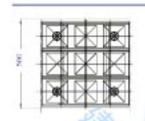






CDM-ISO-CAS-BOX/B3

Acoustic design Load = 240 kN



CDM-ISO-CAS-BOX/B9 Acoustic design Load = 720 kN fres : 7-8 Hz





Festival Theatre is a one of the two halls inside the Palace of Arts'in the new Millennium City Centre of Budapest. It provides high quality environment for different kind of theatrical performances, including drama, traditional Hungarian folk dance and folk music. The acoustical measurements prior to the construction showed that measures were to be taken to isolate the low frequency vibrations, generated by the nearby railway, tramway, commuter train and road traffic. As a result, a resonance frequency of max. 10 Hz, and a prestressed solution with integrated fail-safe system was specified.

As part of the acoustical treatment of the complete compound, CDM-CR bearings were also provided for a resilient decoupling of the slurry wall and some structural walls.







