ARCHITECTURAL ACOUSTICS建声

CDM

CDM-ISO-MONT

Jack-Up Floating Floor System guarantees acoustic de-coupling of floating floors with sping and elastomer isolator performances ranging from 3-7Hz. Due to the unique design the system allows for the bearings to be fully replaceable.

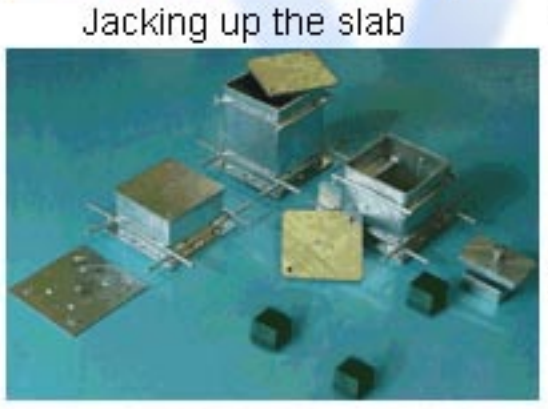
The system can be designed to take heavy loads and can be jacked up before or after these loads are applied. Installation

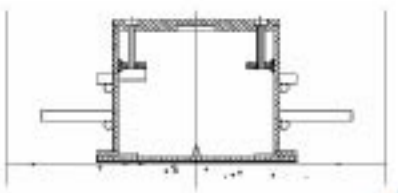
The system allows three standard concrete slab thicknesses, 100mm, 150mm and 200mm (other thicknesses available on request), and also any air void beneath the slab.

The boxes with reinforcement

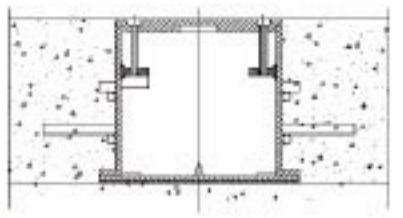
Ready for jacking

Jacking up the slab

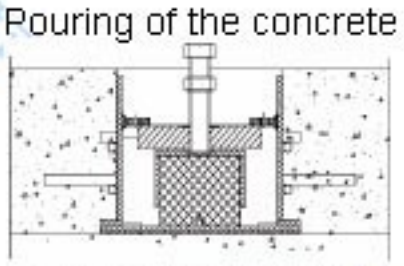




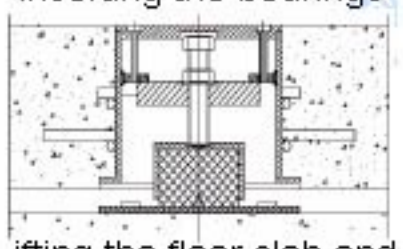
Installation of the boxes



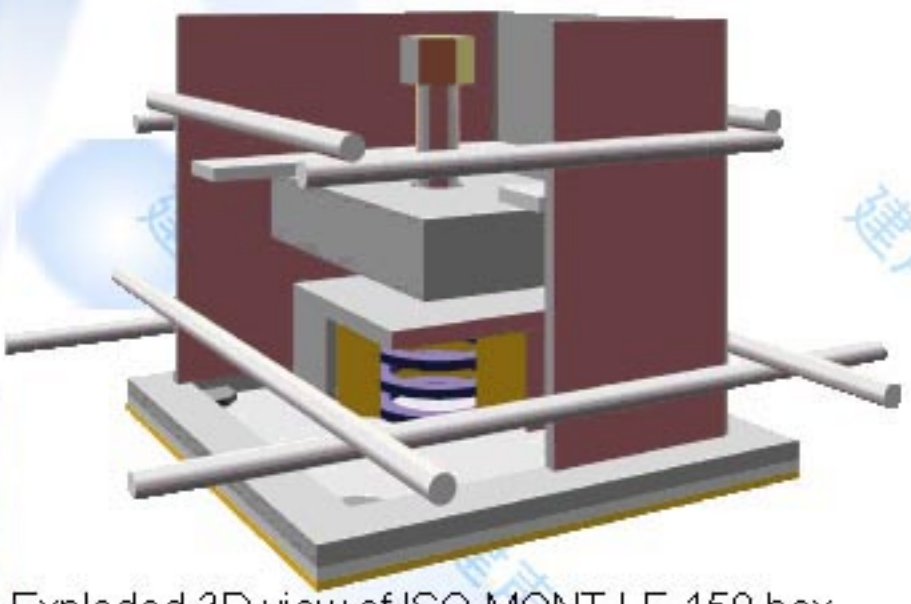
Pouring of the concrete



Inserting the bearings



Lifting the floor slab and closing the boxes



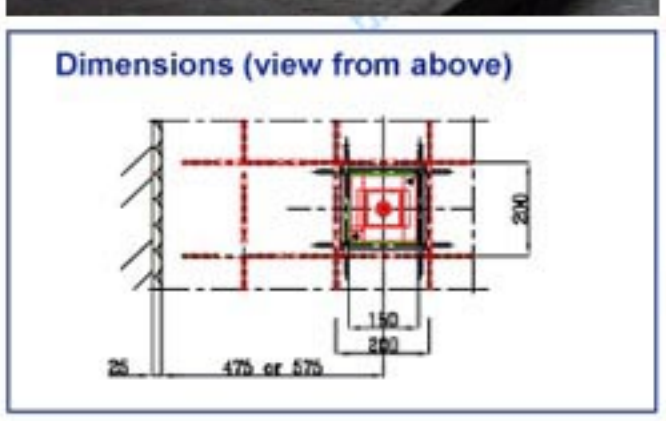
Exploded 3D view of ISO-MONT-LF-150 box

For this purpose CDM also built a Bowling test set-up

In january 2000 CDM was contacted by the customer for a floating floor solution for the bowling of Umraniye. The impact of the bowlingballs on the steel-concrete structural floor caused the important transmissions of structure-borne noise to the cinema complex below, making a complete decoupling of the bowling floor necessary.

Acoustical objectives:
bearing resonance frequency = 5 Hz
maximm load (G+Q) = 1000 kg/m^2

Type of bearing incorporated in the box: CDM-81/82
Dimenions of the bearing incorporated in the box (LxWxH): 110x70x58mm
About 700 CDM-ISO-MONT 100/12 boxes were installed in this project.



Installation on site