Installation Manual
CDM-ISO-FLOAT

Discrete Isolator System for Floors

CDM-ISO-FLOOR

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noise & vibration control

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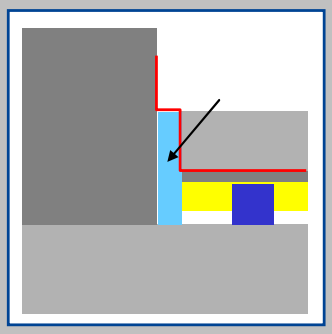
STEPS TO FOLLOW



A. Lateral Isolation

Ensure that the structural floor is dry and free of obstacles, discontinuities, dust, etc. Along the perimeter of the slab, install lateral isolation with mineral wool to ensure a complete decoupling with respect to surrounding walls and structure (also islands like columns, ducting, etc.). The height must be up to the finishing level of the floor (see figure on left).

B. CDM-ISO-FLOAT

For correct installation of the panels, use the installation plan provided which clearly shows the individual panels and their reference numbers (as indicated in the factory on the panels). Lay the panels making sure to follow the sequence as indicated.

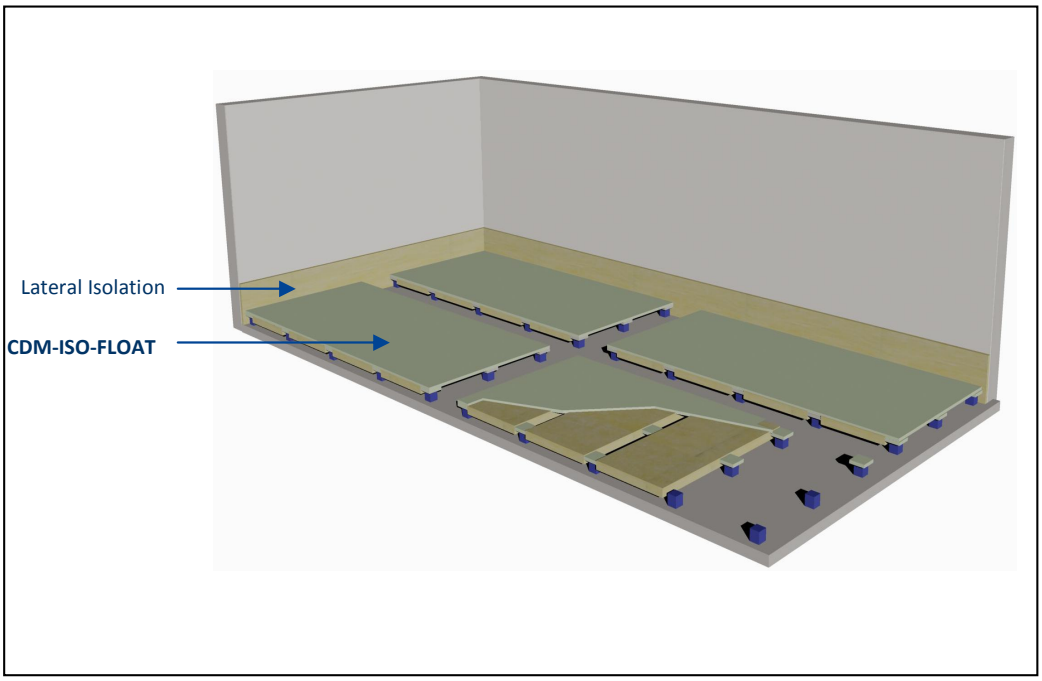


Figure 1: Installation of prefabricated CDM-ISO-FLOAT panels

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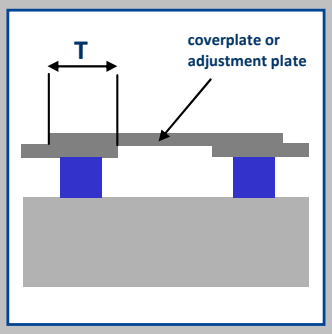
C. Tolerance Zones



In order to cope with the dimensional discrepancies between the plan (according to which the system is produced) and the real situation (on site), it is good practice to integrate so called “tolerance zones” in 2 perpendicular directions, as shown in figure 2. Close off the tolerance zones by means of a larger cover plate in the same material as the formwork (usually supplied with the system). The tolerance capacity is dependent on the overlap “T” (see figure on the left).

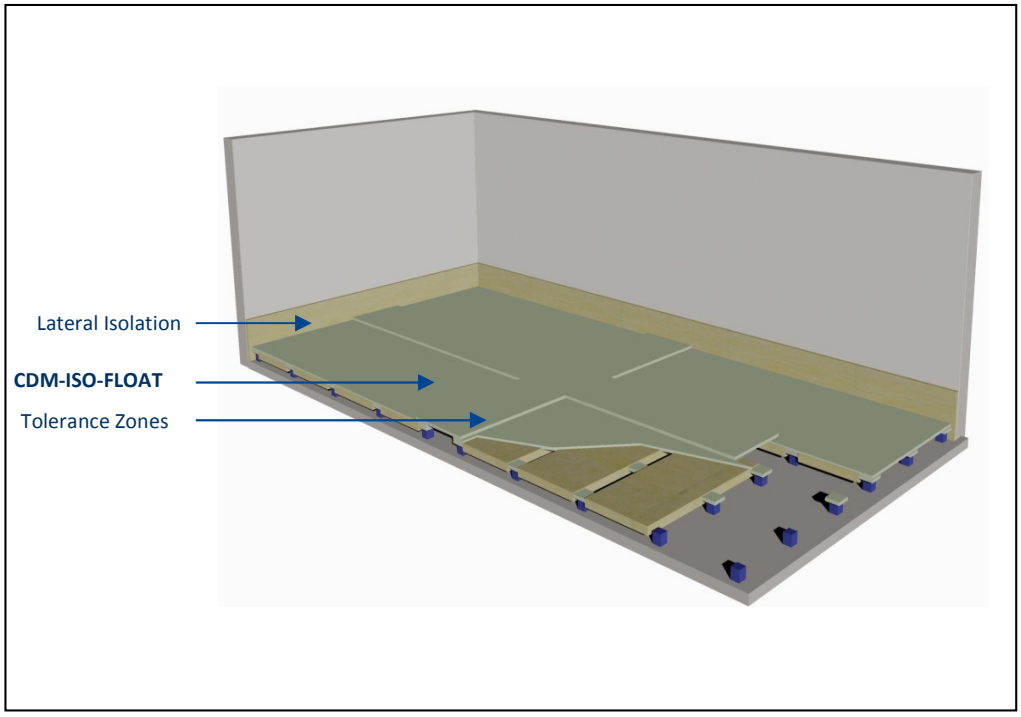


Figure 2: Covering the tolerance zones

D. Protection Foil

Install protection foil over the panels, tolerance zones, and lateral isolation in order to make sure that no concrete water can penetrate the system. It is recommended to install this foil with sufficient overlaps.

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E. Reinforcement Grid and Concrete

Install reinforcement grid. In the case concrete is:

- 4'' [100 mm] thick → a single grid is sufficient
- 6'' [150 mm] thick → advised to use 2 grids (bottom and top)
- 8'' [200 mm] thick → always 2 grids (bottom and top)

Once this is ready, pour layer of concrete up to desired level.

F. Finishing

Install finishing: floor covering + plinth (skirting board). The floating floor should have no rigid contact with the surrounding structure. Please note that, since the isolators are made of rubber, there will be some deflection over time (couple of millimeters), called creep. In case the concerning room is finished with plinths along the perimeter directly after the installation, it is advised to use a very flexible putty between the floor and the plinth in order to cope with the creep issue.

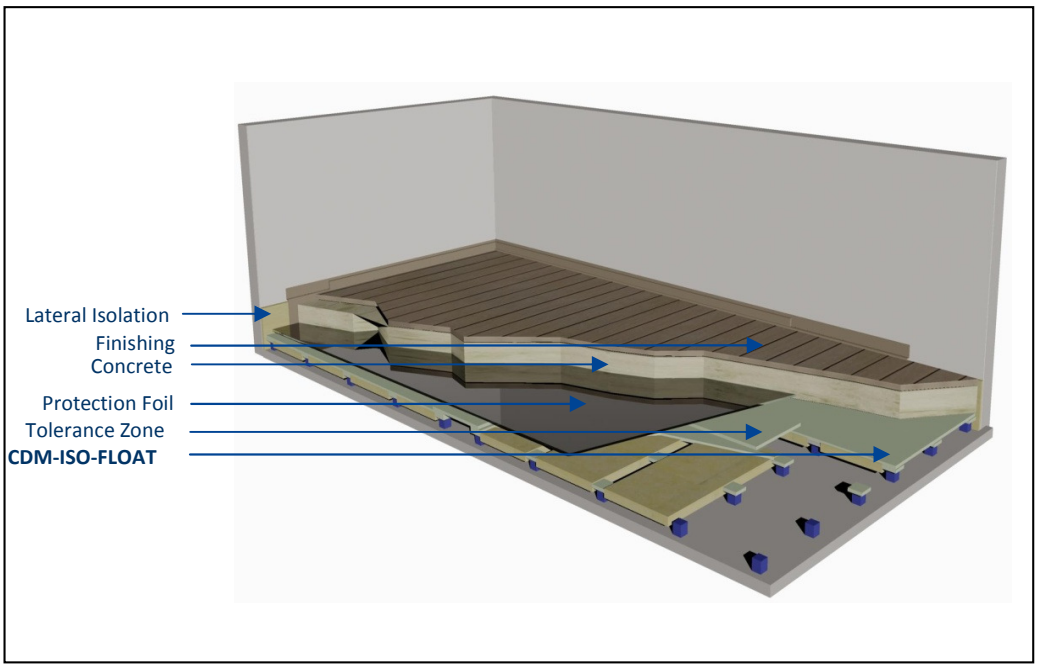

Figure 3: Finishing

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