Installation Manual
CDM-ISO-LAT (WET)

Isolation Battens for Floors

CDM-ISO-FLOOR

CDM
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Belgium

noise & vibration control

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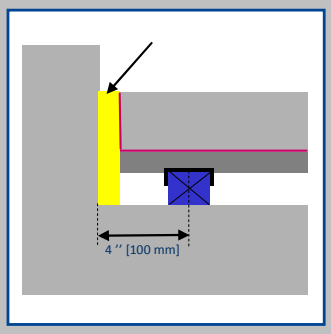
STEPS TO FOLLOW



A. Lateral Isolation

Install mineral fiber (density: 3 lb/ft^3 [~45 kg/m^3], thickness: 1'' [~25 mm]) against the lateral walls to de-couple the floating floor from the adjacent structure. The height must be up to the finishing level of the floor (see figure on left).

B. CDM-ISO-LAT

Lay down each CDM-ISO-LAT rail (type M or H) to its required location (refer to Appendix). The lats do not have to be glued or fixed to the structural floor. The maximum distance between two profiles is 24'' [~600 mm]. If necessary, level the CDM-ISO-LAT battens with spacers placed under a CDM pad. Lats placed all along the perimeter of the floating slab must be at a fixed distance of 4'' [~100 mm] to the floor edge (or perimeter wall), in order to compensate the possible higher loading of that perimeter zone (e.g. furniture).

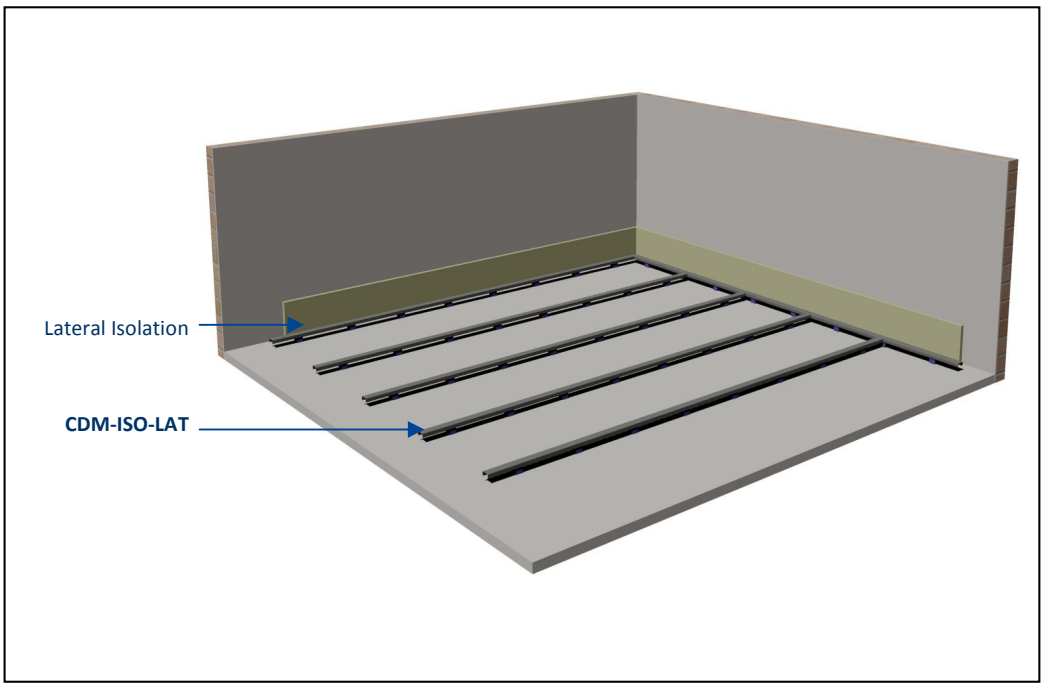


Figure 1: Laying down CDM-ISO-LAT rails

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C. Mineral Fiber

Lay low density mineral fiber between the CDM-ISO-LAT rails (the thickness of the mineral fiber sound absorption should preferably be smaller than the deflected void under the floating floor, to allow air to move freely).

D. Board Layer

Using screws with a maximum length of 1.2'' [~30 mm], screw in a board layer (wood chipboard, plywood, etc. with a thickness of ~0.7'' [18 mm]) into the CDM-ISO-LAT rails. Joints between boards should always be located at the center of a lat.

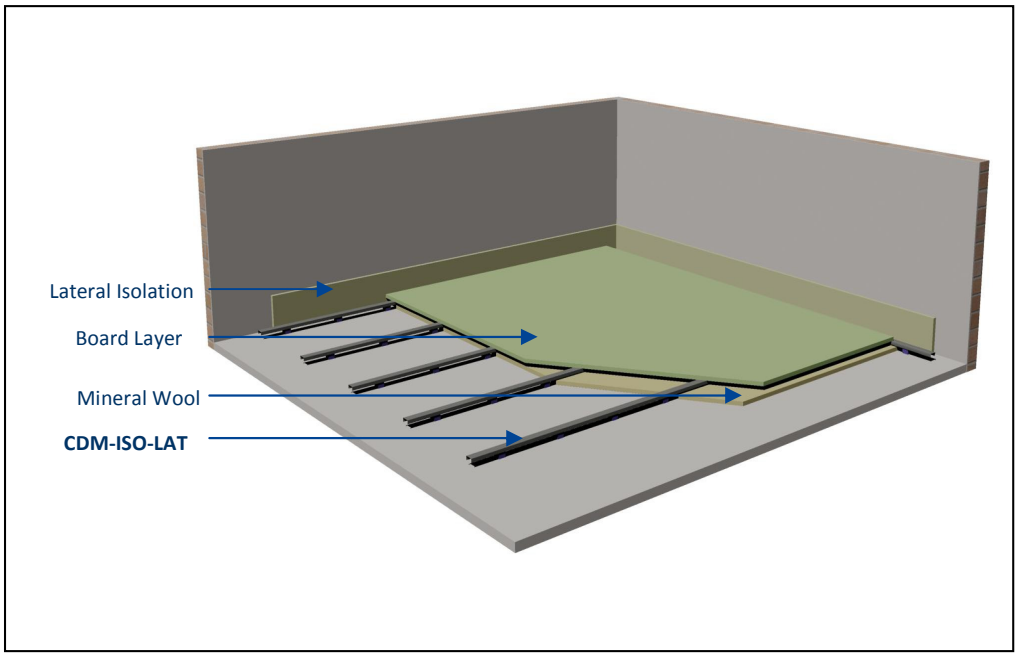

Figure 2: Board layer installation

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E. Protection Foil

Install protection foil over the formwork panel and lateral isolation, with an overlap of at least 4'' [~100 mm].

F. 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

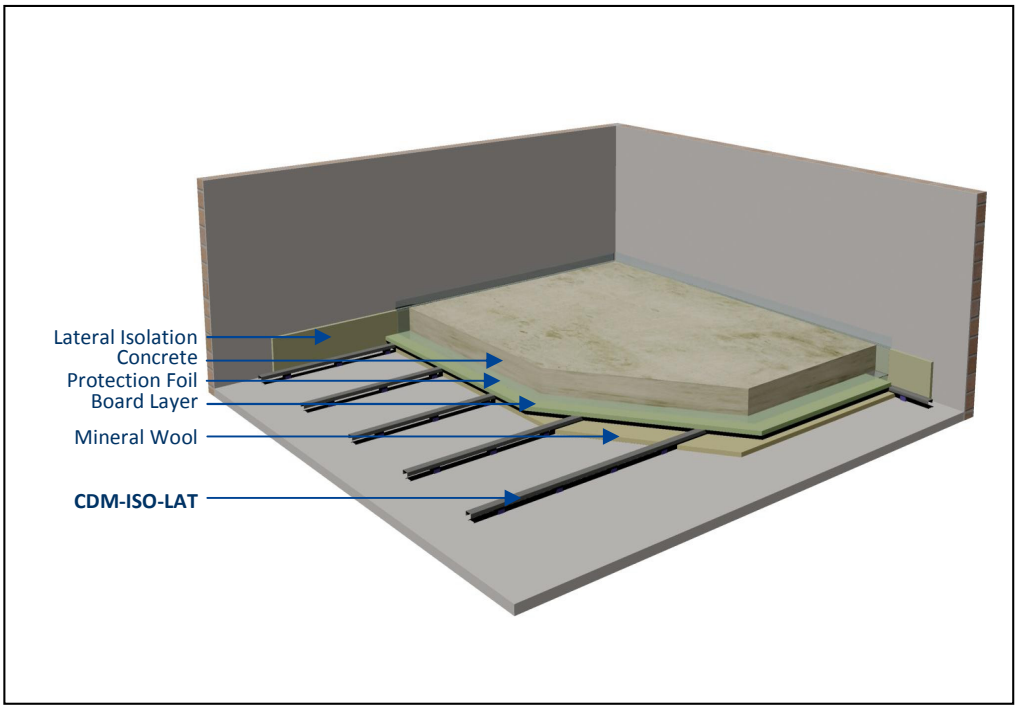

Figure 3: Concrete layer on installation surface

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G. 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.

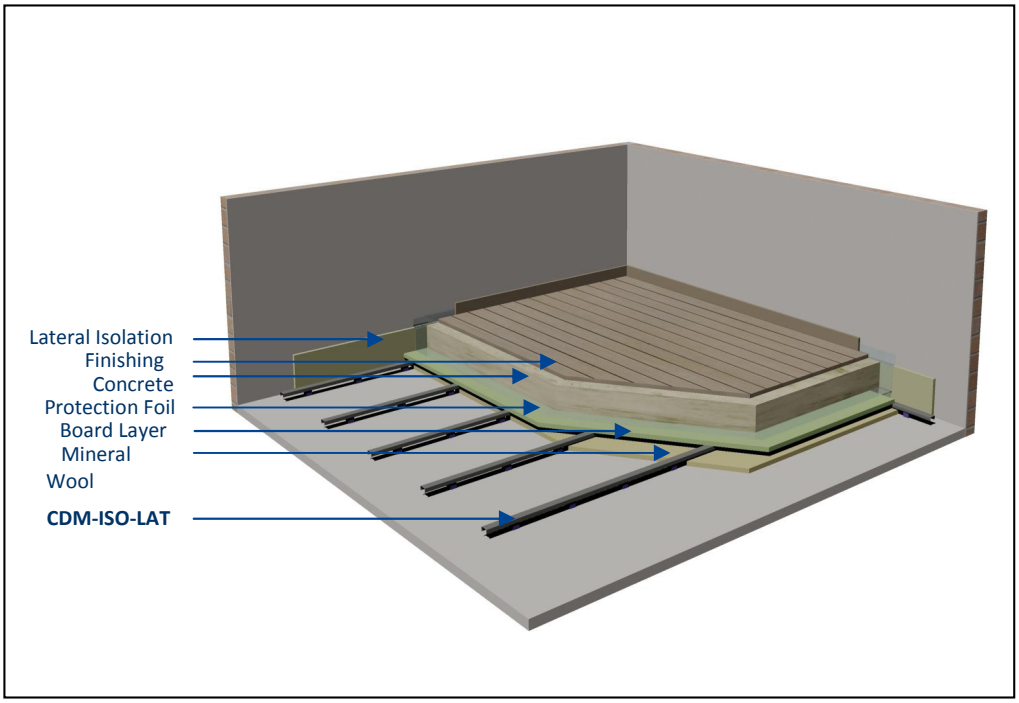

Figure 4: Finishing

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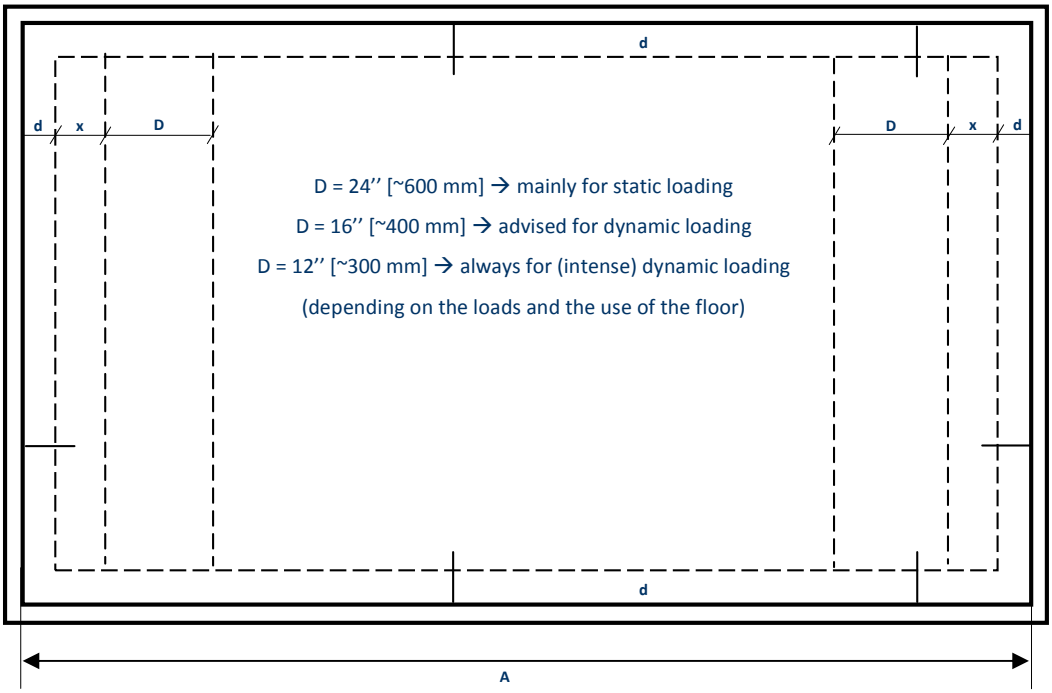
Calculation for CDM-ISO-LAT Locations on Installation Surface

PLAN VIEW



$$x = [(A/2) - (D*(n/2)) - d]$$

n = Number of CDM-ISO-LAT

– – – – = CDM-ISO-LAT

x = distance between first two CDM-ISO-LATs close to a wall

D = ax-ax distance between two lats

d = approx. 4'' [100 mm]

A = room length (refer to diagram above)

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