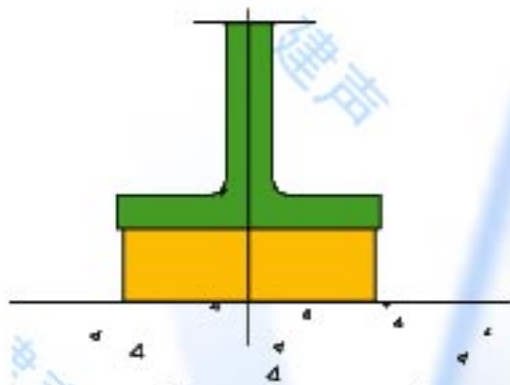


CDM

CDM-ISO-LOOM-CONTACT



CDM damping pad



Principle drawing

Weaving looms and tufting machines generate a large amount of vibration and structure-borne noise which is transmitted to the environment via the floor; CDM damping pads considerably reduce the structure-borne component and can therefore be used as 'soundstop'.

The advantages of using CDM-ISO-LOOM-CONTACT are:

- 1 easy to install: locate directly under the machine support
- 2 improves working environment
- 3 extends lifetime of the support structure

4 good ageing resistance

Required data for design:

- 1 Pipe contact temperature
- 2 Pipe diameter and thickness
- 3 Number of pipes to be isolated
- 4 Nature and orientation of supporting surface
- 5 Excitation frequency spectrum (if available)



A treated jacquard column

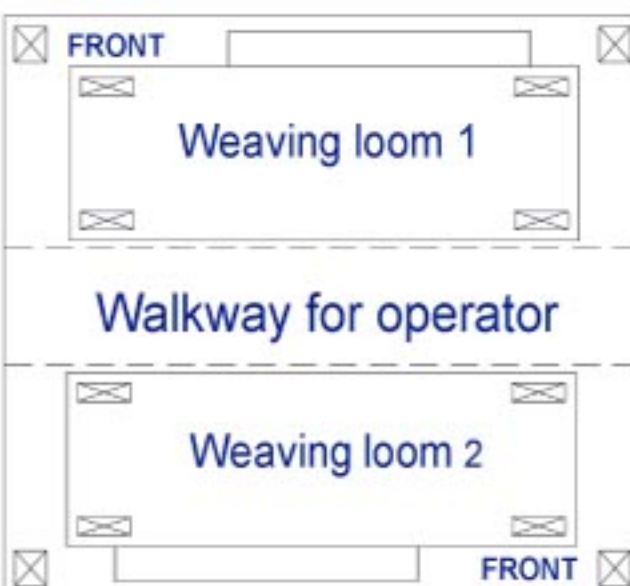


A treated loom foot



View of the whole setup

Job Type	Isolation of a whole battery of 6 x 2 coupled loom machines with jacquards
Problem	Too high vibration levels at the soil serious neighbour complaints!
Turning speeds	Every loom (type = Picanol, ca. 3 tons, air driven) turning at a slightly different speed between 600 and 700rpm (delta = min. 5rpm), to avoid synergies
Isolator type	Combi-pad of CDM-HR & PF resonating at 5Hz
Consultants	EVA int. & AIB Vinçotte
Intervention date	Nov. - Dec. 2003



Performance: isolated setup versus non-isolated setup: reduction of the vibration levels with a factor 4 at 20Hz.

Important note: no excessive machine movements nor displacements were registered for the treated looms.