



• Job Type	Building base isolation
• Vibration Source	Train passage
• Acoustic Consultant	LBP Sight
• Year of execution	2009
• ADL Load	140000 kN ADL

The "Pelikaan" in Heemstede is a residential building complex situated in close proximity of the train track between Leiden and Haarlem. The complex consists of about 100 houses, 50 luxury villas and 50 apartments.



The acoustic consultant LBP Sight carried out vibration measurements at several distances from the track. Based on the measurement results and Dutch standards it was decided to isolate the building 9dB at 16Hz. To comply with this demand, a vibration cut around 8 Hz is required.

Different panels are designed in function of the track width. If needed, the panels can be cut on site (water evacuation, cables, ...).



For the vibration cut at 8 Hz a CDM-SEB was designed using the material CDM-83. In 2009 the project is realized. During realization the deflection of the vibration dampers was measured and checked.

