New University Building
Amsterdam, NL

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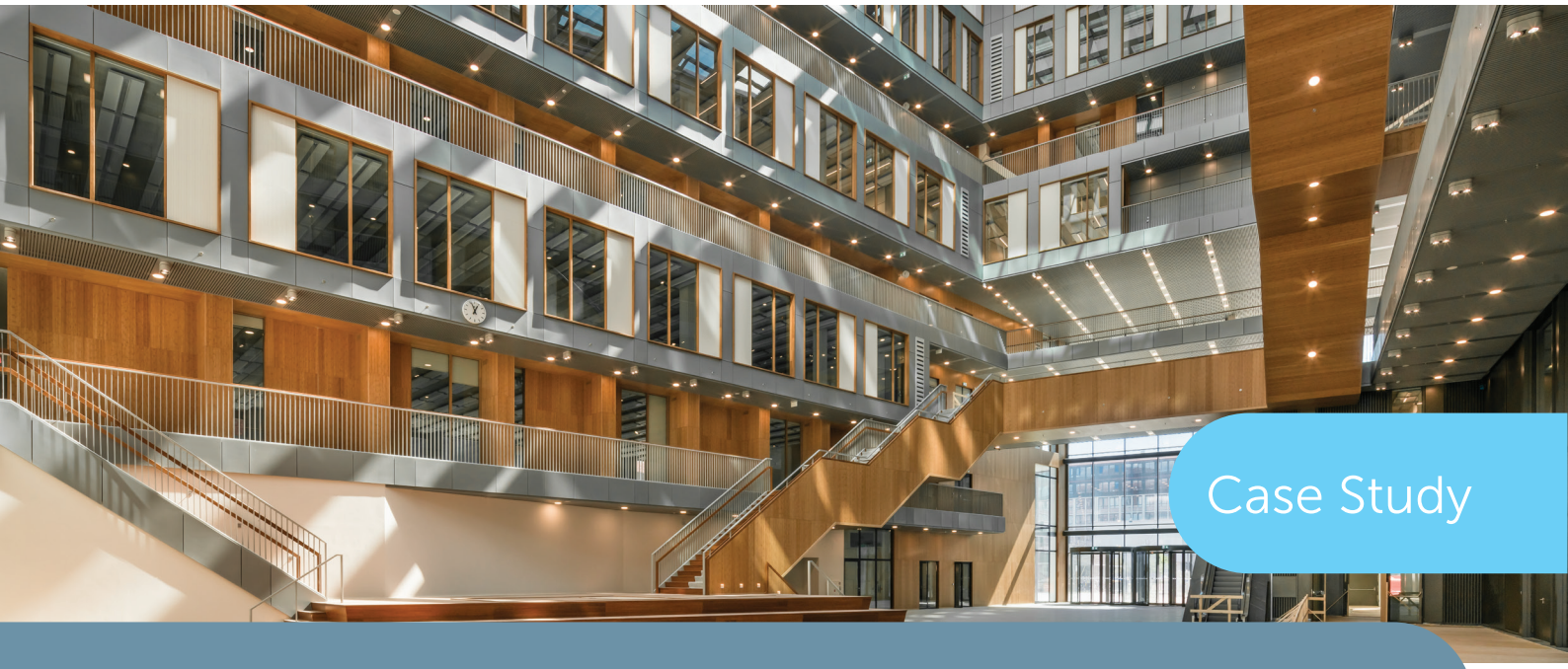


Case Study

Property Owner
VU Amsterdam

Main Contractor
Boele & Van Eesteren +
Visser & Smit Bouw

Structural Engineer
ABT

Architect
Team V

Acoustic Consultant
LBP|SIGHT

Stravilink CC60, Stravilink PSJ

- Elastomer acoustic suspension hangers designed to suspend acoustic ceilings using 60 mm profiles, improving airborne isolation performance (Stravilink CC60)
- Elastomer isolation joist hangers designed to support suspended ceiling systems off joist structural floors (Stravilink PSJ)

OVERVIEW

On the Boelelaan and Campusplein in Amsterdam is the new university building VU, which houses flexible spaces for education, research and culture. For example, the lecture hall can be used for watching movies in the evening.

The building has 7 floors on the campus side and 12 floors on the Boelelaan (total 31,000 m^2). In the middle of the building is a large atrium, with a grand café and shops on the ground floor and library facilities on the first floor. An underground parking garage has been realised for 600 cars and 1,600 bicycles.

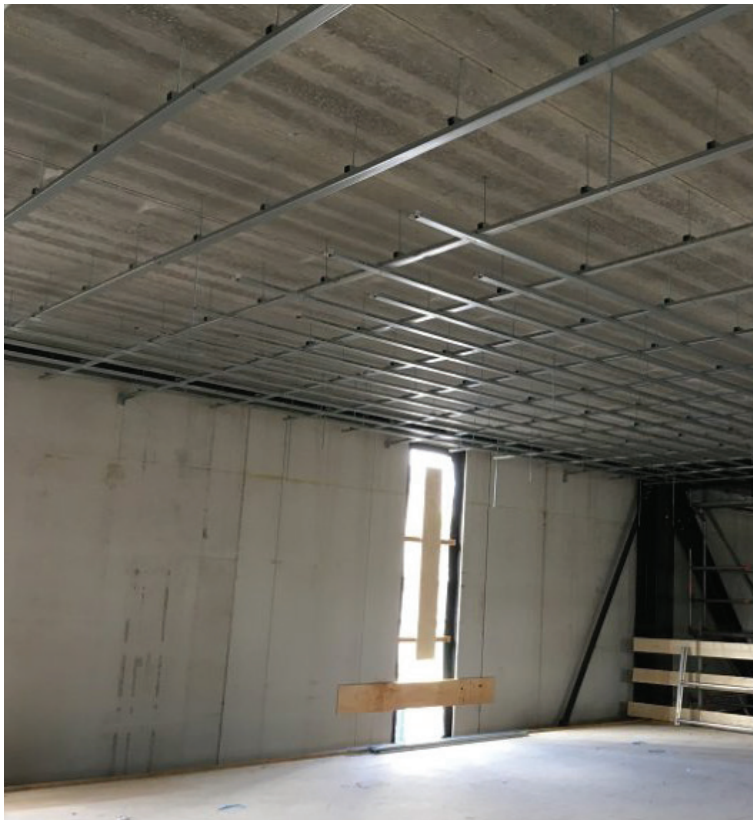
SOLUTION

For the upper floors, Slimline floors were chosen, which are constructed from an 80 mm concrete base floor with steel beams on top. On the steel beams is a steel slab concrete floor installed. To achieve high sound insulation, Delta-L was commissioned by Voortman to advise and supply CDM Stravitec rubber granulate overlay strips. The rubber overlay strips are fitted between the steel beams and the steel plate.

In addition, in a number of rooms, suspended ceilings have been constructed that are decoupled with acoustic ceiling hangers, type Stravilink CC60 and Stravilink PSJ, based on natural rubber with a low resonance frequency for high sound insulation. The Stravilink CC60 is suspended at threaded rods and the Stravilink PSJ is applied against the side of a wooden beam construction. By using the Stravilink PSJ it was not necessary to install an extra construction between the wooden beams for the suspension.

In order to limit the vibration transfer from the floor to a number of walls, fixings were provided with acoustic decouplers: rubber strips were used and the bolted connections were decoupled using a Stravibase Fix system.

Photography: Jannes Linders



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