

Villa Infante

Lisbon, PT

cdm **stravitec**

Making your world a quieter place



Case Study



Property Owner

Avenue



Main Contractor

SANJOSE Constructora



Architect

Frederico Valsassina Arquitectos



Acoustic Consultant

Certiprojecto

OVERVIEW

Villa Infante, located in Estrela, one of Lisbon's most enchanting neighbourhoods, is a private condominium with beautiful contemporary one- and two-bedroom flats and modern conveniences such as a fully equipped gym.

The development consists of several buildings built around a central patio and surrounded by secluded gardens where residents can escape the hustle and bustle of the city.

Stravimech ElevatorFix

- An elevator guide rail isolation system designed to minimize the amount of vibration and structure-borne noise transmitted by an elevator or lift.



SOLUTION

To deliver on the promise of quiet luxury living, the 16 elevators going up and down in the apartment buildings had to be acoustically decoupled to prevent vibrations from causing a noise problem.

To isolate the Thyssenkrupp Synergy100 elevators [Stravimech ElevatorFix](#) isolation systems were installed on every mechanical connection.

The same type of vibration isolators are used to decouple the guide rails and bottom parts of the elevators engines from the surrounding structure, minimizing differential movement of the rails due to dynamic forces, and thereby preventing unwanted structure-borne vibrations from creating a noise problem in the rest of the apartment building.

AT A GLANCE

CHALLENGES

- Need for a customized solution, adapted to different mechanical connections and available surfaces
- Compatibility with different elevator technical warranties and European safety certifications (according to European Seismic Standards and Certifications - Seismic Category - Type 1)
- Compatibility of the systems according to the elevators' maintenance procedures and reliability

BENEFITS

- Custom-designed solution for each of the 16 elevators and connections
- Easy to install
- Maintenance-free and with the necessary warranties

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Isolated Elevators
Guides & Engines
with Stravimech
ElevatorFix

