



Case Study



Property Owner
Avenue



Main Contractor
Mota-Engil



Acoustic Consultant
Inacoustics



Architect
Promontório



Structural Engineer
Afa Consult

OVERVIEW

The Bonjardim headquarters, a site extensively renovated from the former D. João I headquarters, consists of five distinct buildings dedicated to residential condominiums and a student hotel.

Conveniently located just a short distance from Avenida dos Aliados and Mercado do Bolhão, this development comprises a residential condominium with 93 apartments and 16 shops seamlessly woven into the urban fabric. This is a place where tradition meets with modernity, offering residents the opportunity to experience the true essence of Porto.

Stravifloor Mat

- Low-profile roll-out isolation solutions for impact and rolling noise

Stravifloor Deck

- High-performance low-profile deck floor system with high bending stiffness for light concrete constructions allowing for large support spans



SOLUTION

Various **Stravifloor Mat** resilient floating floors were used across distinct zones within the buildings to address diverse acoustic requirements.

A customized vibration isolation solution was created, using discrete elastomeric pads, to effectively isolate a rooftop athletics track.

The **Stravifloor Deck** system is a low-profile floating floor system featuring a proprietary dovetailed metal deck designed for light concrete pours. The system's impressive bending stiffness accommodates concrete toppings of different thicknesses (ranging from 70 to 90 mm), essential for maintaining a level running surface on a sloped roof designed for efficient water drainage.

AT A GLANCE

CHALLENGES

- Adherence to prescribed height limitations crucial for optimal system performance, with a specified bearing natural frequency of 8Hz.
- Asymmetric shape of the floor (athletics track)
- Ensuring compatibility with thermal insulation requirements of a roof slab

BENEFITS

- Exceptionally effective noise and vibration isolation
- Quick and easy installation
- Light concrete floating floor

1000 rm

Stravilink
WallStrip

135 m²

Stravifloor
Deck

11000 m²

Stravifloor
Mat-F4.5_c

2200 m²

Stravifloor
Mat-W15_a

450 m²

Stravifloor
Mat-W8_a

