Quarteirão Bonjardim Porto, PT







Property Owner Avenue

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Main Contractor Mota-Engil

Acoustic Consultant



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.

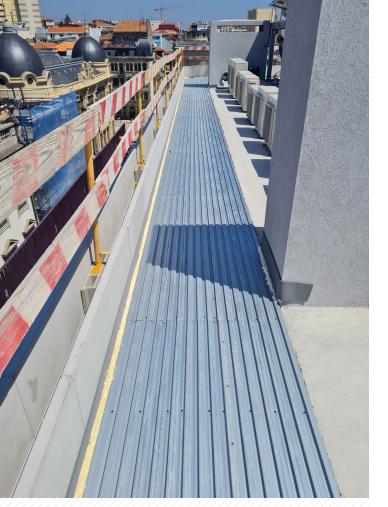
Conveniently located just a short distance from Avenida dos Aliados and Mercado do Bolhão, this development comprises a residential condominium with 93 apartments and 16 shops seamlessly woven into the urban fabric. This is a place where tradition meets with modernity, offering residents the opportunity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



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 (athlectics 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

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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.

