

EPIC SANA Marquês Hotel

Lisbon, PT



Case Study



Property Owner

AZINOR Group



Main Contractor

DST, S.A.



Structural Engineer

GAPRES, S.A.



Architect

Nuno Leónidas Arquitectos, Lda.



Acoustic Consultant

Acústica & Ambiente, Lda.

OVERVIEW

After an investment of 48 million euros, the recently renovated EPIC SANA Marquês Hotel in the center of Portugal's capital is inaugurated.

The new 5-star hotel, which was erected out of the former 4-star EPIC SANA Lisboa Hotel, offers 379 elegant suites, 3 restaurants, a lobby bar with covered garden and a guest-only Sky Pool Lounge. SANA Group's latest addition also features a spacious conference center and event hall able to seat up to 450 people. Guest are able to escape the hustle and bustle of this vibrant city in the Sayana Wellness, one of Lisbon's best kept secrets.

Stravifloor Mat, Stravifloor Deck

- Low-profile roll-out isolation solution providing cost-effective structure-borne noise protection (Stravifloor Mat)
- High-performance low-profile deck floor system with high bending stiffness for both concrete and light wooden construction (Stravifloor Deck)

Stravifloor Prefab, Stravifloor Jackup-R

- Pre-manufactured modular floating floor solution (Stravifloor Prefab)
- Jack-up floating floor system with reinforced steel boxes cast into concrete (Stravifloor Jackup-R)



AT A GLANCE

CHALLENGES

- Multifunctional building with different acoustic requirements on every floor
- Different insulation systems with different (adjustable) heights, according to the requirements of the architectural design

BENEFITS

- Stravifloor Deck (HR) on resilient pads with only 80 mm concrete slab
- Stravifloor Jackup-R permits height optimization when little space is available
- Turnkey solution provider: design, production, delivery and installation

1.831 m²

Stravifloor
Deck

7.200 m²

Stravifloor
Mat-W8_a

220 RMT

Stravimech
Bearing

SOLUTION

A low-profile roll-out [Stravifloor Mat-W8_a](#) system is used in the hotel lobby, spa, and most of the floors on which the bedrooms are located. This cost-effective solution offers excellent protection against structure-borne noise, including rolling noise and noise generated by foot traffic. A thicker [Stravifloor Mat-W15_a](#) solution isolates the busy restaurant from the adjoining spaces.

In the technical rooms a [Stravifloor Jackup-R](#) isolated floating floor using reinforced steel boxes cast into concrete and jacked-up after the concrete has cured, provides proper insulation of the strong vibrations generated by the mechanical equipment. The removable lid allows for easy access to the isolators, in case they need to be replaced or adjusted if the load conditions of the rooms would change in the future.

A pre-manufactured and modular [Stravifloor Prefab](#) floating floor system is used to decouple the swimming pools on the 3rd and 13th floor. This exceptionally easy to install system minimizes the risk of installation errors, while providing good structure-borne and airborne noise isolation so that guests staying in the rooms on the floors below and above aren't disturbed.

122 m²

Stravifloor
Prefab

206 m²

Stravifloor
Jackup-R

255 m²

Stravifloor
Mat-W15_a

