Soho House
Rome, IT

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Making your world a quieter place

Case Study

Property Owner
SHG Acquisition (UK) Limited

Project Manager
Société de Conception Acoustique

Acoustic Consultant
Dino D´Ambrosio

OVERVIEW

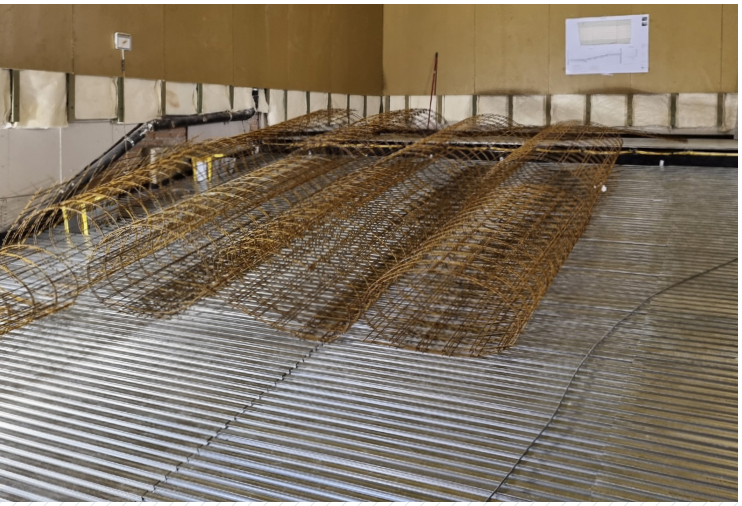
Founded in 1995 by club and restaurant entrepreneur Nick Jones, Soho House is a home from home for creative people from all walks of life. Soho House is dedicated to everything from working, to working out, relaxing, socializing, eating and drinking, it has established itself as the private members' club of choice for people in the media and creative industries. With members and houses spread all around the world (33 in 14 countries), Rome marks the first opening in Italy, with a house in Milan set to follow.

The 10-storey Soho House Rome, with 49 bedrooms and 20 long-stay apartments, is a hub and hideaway looking straight into the cultural and architectural heritage of the city Located in the heart of San Lorenzo, the artistic quarter of the capital.

Soho House Rome offers many amenities, including a rooftop pool bar, wellness area, and a 42-seat screening room with state-of-the-art laser projection and Dolby Atmos immersive sound technology.

Stravifloor Deck, Stravilink PHR

- High-performance low-profile deck floor system with high bending stiffness for light concrete constructions allowing for large support spans (Stravifloor Deck)
- Spring isolation hangers designed to support suspended ceilings, lighting rigs, pipework, and HVAC units and isolate them from the main building structure. (Stravilink PHR)



AT A GLANCE

CHALLENGES

- High level of acoustic isolation
- Limited available height
- Sloping concrete floating floor

BENEFITS

- Fully integrated solution
- Tailor-made system
- Solution with proven track record in many other applications

SOLUTION

For the screening room, located on the 8th floor of the building, the acoustical consultant designed a box-in-box solution based on a floating floor system with spring bearings, directly supporting the acoustic walls, thereby disconnecting them from the rest of the structure. The walls themselves are mounted to the structural walls using Stravilink WallBatten isolators. An acoustic ceiling suspended from resilient spring hangers completes the box-in-box design.

A Stravifloor Deck system with springs as resilient supports was installed in the screening room. The cavities between the resilient battens is filled with insulation material to avoid the so-called standing wave effect and improve the acoustic performance. On top the channels metal dovetailed decking is placed on which a thin layer of concrete is poured. The inclination posed to be an extra challenge as the concrete needs to be distributed equally across the entire floor.

Using quick and easy to install Stravilink PHR spring isolation hangers, a the suspended acoustic ceiling is decoupled from the building structure.

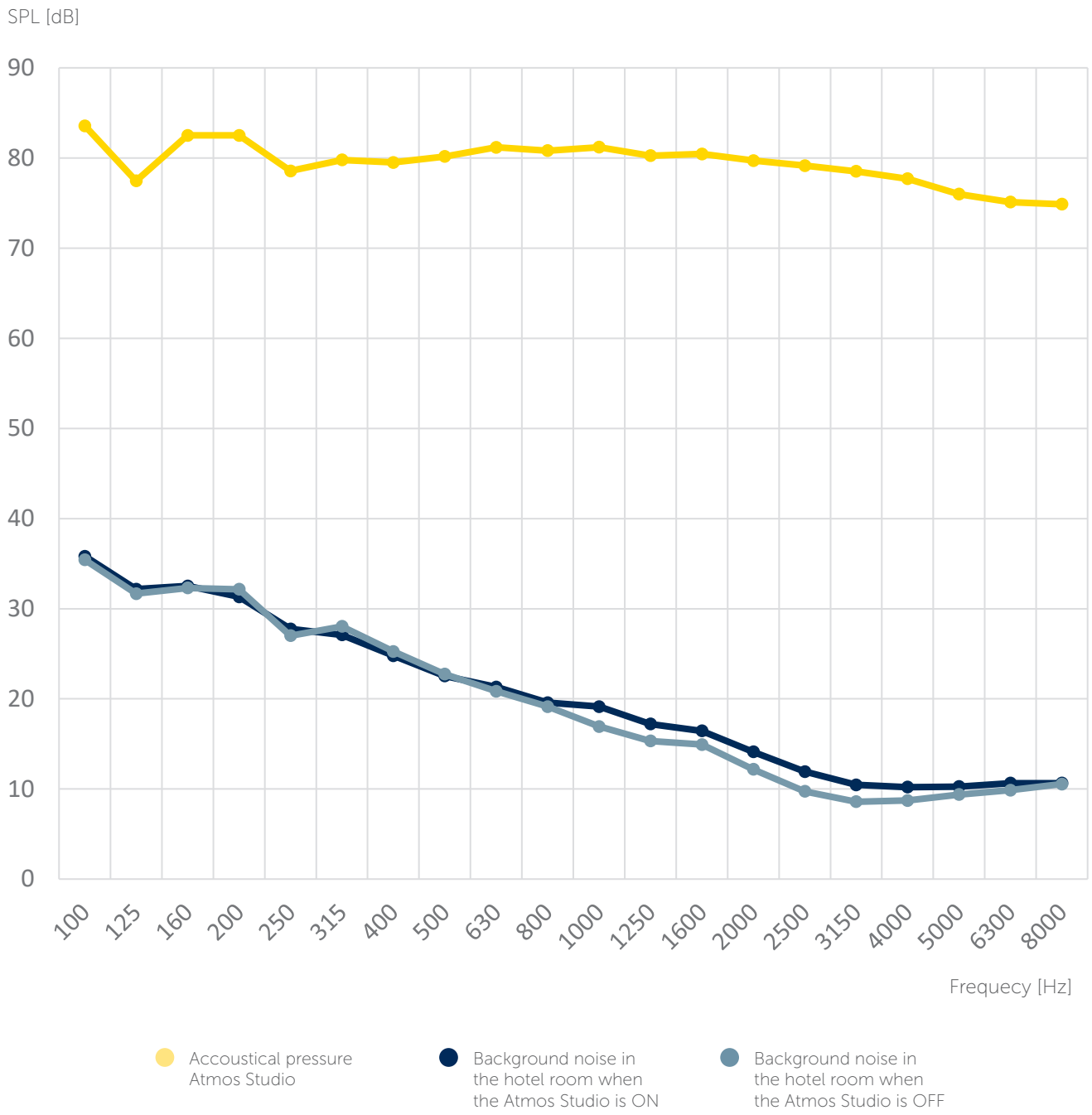
125 pcs
Stravilink WallBatten

85 pcs
Stravilink PHR

110 m²
Stravifloor Deck

ACOUSTICAL RESULTS

After completion of the box-in-box design, with Stravifloor Deck as the acoustic floating floor and Stravilink WallBatten and Stravilink PHR resilient supports for the walls and ceiling, in situ tests were carried out by the acoustical consultant. The graph below shows that the installed box-in-box solution is highly efficient, as there is no longer any significant difference between the background noise in the rooms when the Atmos Studio is operational or not.



The box-in-a-box insulation system implemented made it possible to not significantly exceed the background noise in the hotel rooms below when the Atmos Studio is working.

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