

Case Study: The Golden Tulip Hotel

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Challenges

- The 4th floor, located directly below the ballroom floor, is designated for bedrooms.
- The sound level inside the ballrooms reaches over 105 dBA at 1 meter from the speakers.
- The required sound level inside the bedrooms should not exceed 40 dBA in the absence of any informative sound.



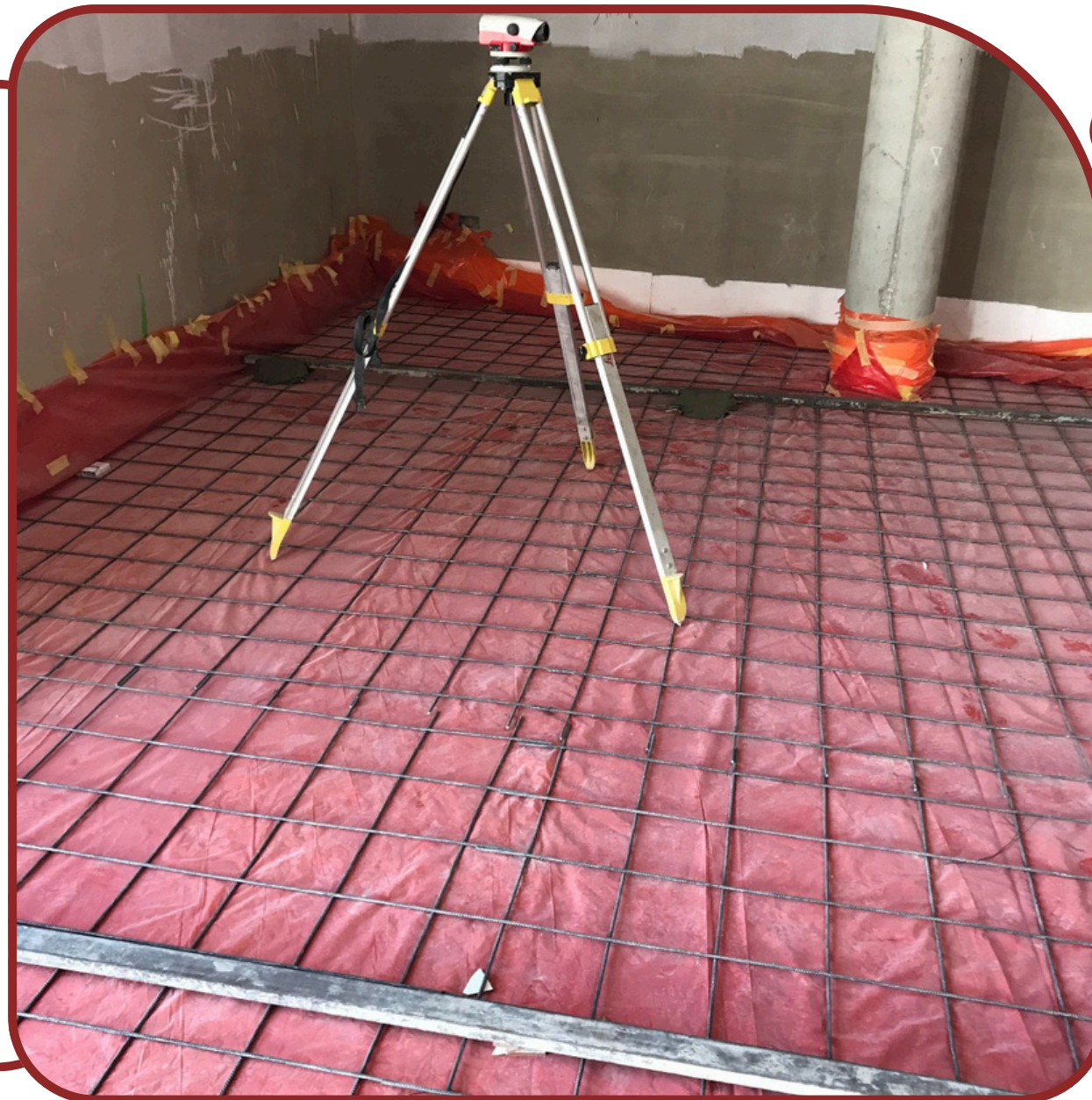
Solutions

- 1-Floating floor system with the lowest possible natural frequency that would help cutting off the lowest frequency bass.
- 2- Walls and ceiling cladding with totally decoupled systems to avoid any solid-to-solid contact that might make sound or vibration bridging.
- 3- Using resilient suspension hangers for speakers, ducts, pipes...etc.
- 4-Using Acoustic doors for the ballrooms.



Results

- Field STC achieved for the main slab + floating floor system [higher than 75]
- Field IIC achieved for the main slab + floating floor system [higher than 70]





Contact Us

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