

330 GOLDSTREAM VICTORIA, BC, CANADA

Achieving Acoustic Excellence
in Light Wood Frame Buildings

PREFACE

The 330 Goldstream project in Victoria, BC, is a standout example of how advanced an acoustic system can be seamlessly integrated into mid-rise buildings without compromising on design or performance. This rental project aimed to achieve exceptional acoustic comfort while meeting stringent sustainability and seismic requirements. AcoustiTECH was brought in to provide a tailored acoustic solution, ensuring the building offered superior living conditions while adhering to local regulations.

CHALLENGE

The main challenge of the 330 Goldstream project was to:

- *Balance lightweight construction, required for local seismic compliance, with high acoustic performance.*

The project needed an acoustic solution that would not add unnecessary weight to the structure but still deliver superior sound insulation to enhance the living environment for residents.

ACTION

AcoustiTECH collaborated closely with the project's team, proposing the following innovative solution : **Fermacell 2E32** and **Soprema Acoustivibe** system. This system provided the ideal solution by meeting acoustic standards while maintaining the lightweight construction necessary for the building's seismic compliance. AcoustiTECH also offered ongoing consultation and on-site support to ensure the system was implemented effectively, maximizing both performance and efficiency.



PROJECT SPECIFICATIONS

- **Total Area Supplied by Fermacell and Soprema** : 60 000 sq. ft.
- **Storeys** : 6
- **Construction Type** : Light Wood Frame
- **Completion** : 2021

KEY STAKEHOLDERS

- **Architects** : Cascadia Architects
- **Developer** : GVHS/BC Housing
- **General Contractor** : Kinetic
- **Acoustic Engineer** : RWDI

ACOUSTIC SOLUTION

- **Acoustic System** : Fermacell 2E32
+ Soprema Acoustivibe



RESULTS

The 330 Goldstream project not only met but exceeded expectations in terms of acoustic performance. The use of the **Fermacell 2E32** and **Soprema Acoustivibe** system resulted in:

- AIIC (Apparent Impact Insulation Class) of 59 and ASTC (Apparent Sound Transmission Class) of 60.
- Enhanced Living Environment: Significantly reduced noise levels, creating a more comfortable living space.
- Positive Feedback: Residents have reported a marked improvement in sound quality, contributing to a better quality of life.

AIIC **ASTC**

59

60



"For over 25 years, we've been developing high-performance acoustic and structural solutions. Our mission is to help our customers realize their vision by optimizing the acoustics of their projects."

Vincent Moreau

Co-owner - Executive Vice-President Sales
Innovation & Strategic Development - Sustainability Ambassador
AcoustiTECH

CONCLUSION

The 330 Goldstream project exemplifies AcoustiTECH's ability to deliver innovative acoustic solutions tailored to specific project needs. This project not only set a new standard for acoustic performance in mid-rise residential buildings but also demonstrated how design, functionality, and comfort can coexist seamlessly. Looking to optimize the acoustic performance of your next project? Contact AcoustiTECH to explore how our tailored solutions can help you achieve your design and performance goals.