

PROJECT PROFILE: **CONDOMINIUMS**



PROJECT: THE LODGE AT WHITEFISH LAKE Whitefish, Montana

Luxury condominiums come with high privacy and sound isolation expectations. So when the architect wanted to ensure that The Lodge would meet high-end expectations, Big Sky Acoustics was added to the design team.

BSA's SERVICES AND SOLUTIONS:

- Determined the STC and IIC design goals for wall and floor-ceiling constructions between units and adjacent spaces, including other units, mechanical rooms, banquet rooms, the Lobby, and elevator shafts.
- Estimated the STC and IIC ratings of the proposed floor-ceiling constructions.
- Estimated the STC rating of the proposed wall constructions.
- Evaluated possible modifications to the constructions to meet the design goals, such as:
 - ◆ Using resilient clips vs. resilient channels.
 - ◆ Increasing airspace.
 - ◆ Adding layers of gypsum board.
 - ◆ Comparing batt to blow-in insulation.
 - ◆ Incorporating resilient floor underlayments.
 - ◆ Utilizing ceiling isolation hangers.



BSA's Sound Isolation Design:

- Reduced the sounds transmitted through the wall and floor-ceiling constructions.
- Limited distractions and disturbances in the units due to noises from adjacent spaces.
- Controlled the footstep noise of someone walking on the floor above.