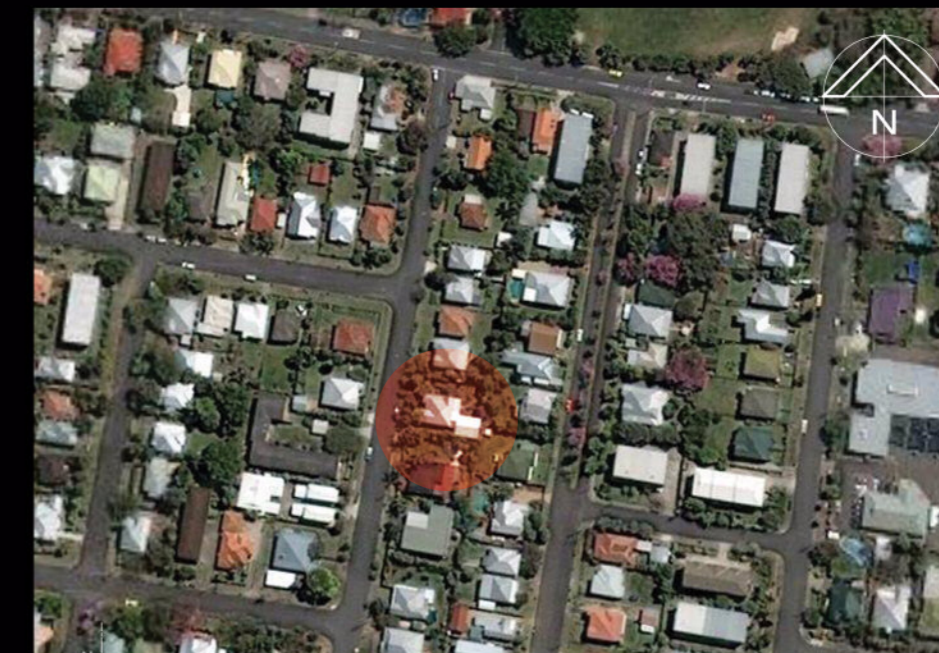


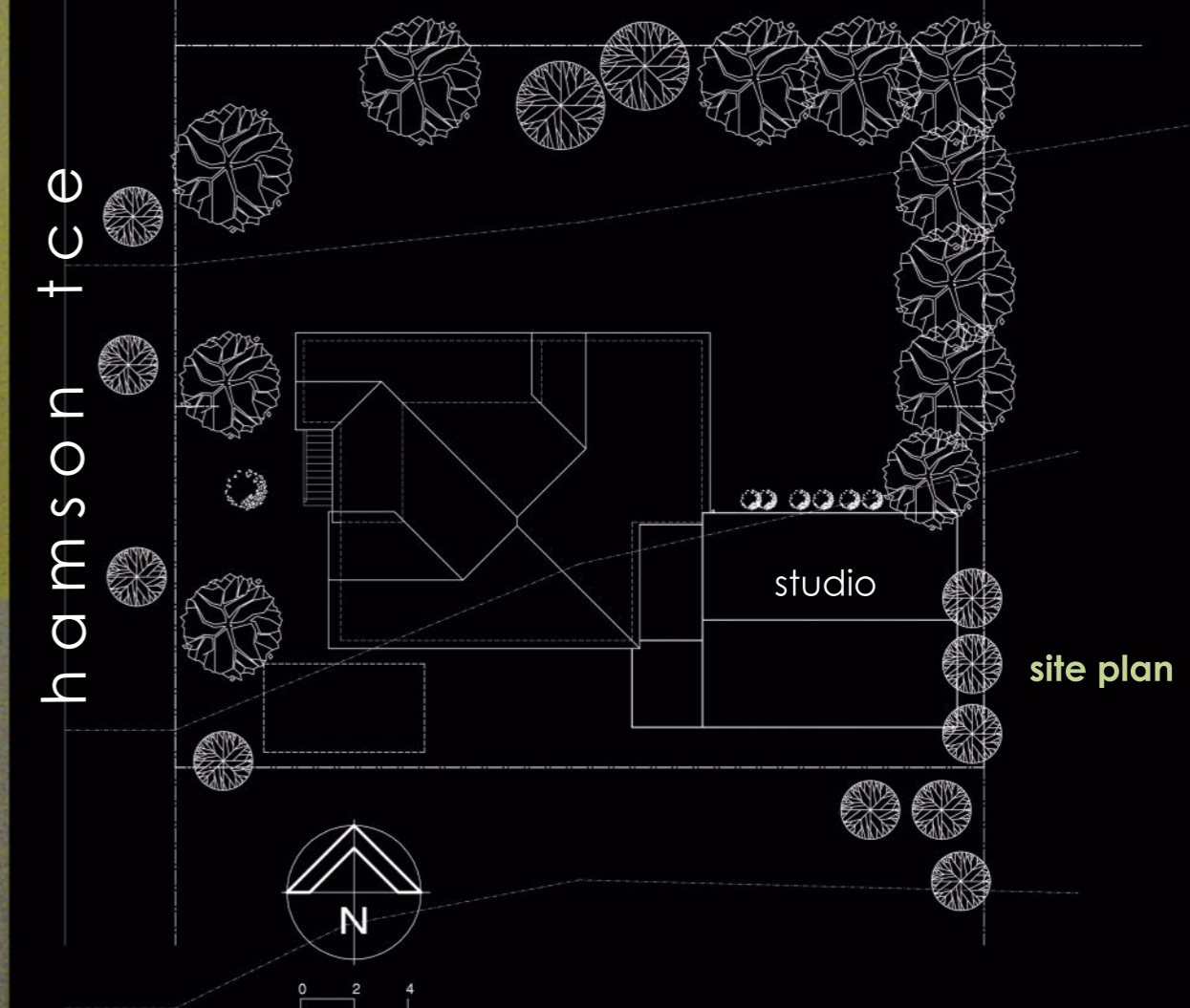
panatta sound studio



Brisbane locality map.
Property is 7km north east of the city.



Suburban map.
Property is located in a residential suburban area.



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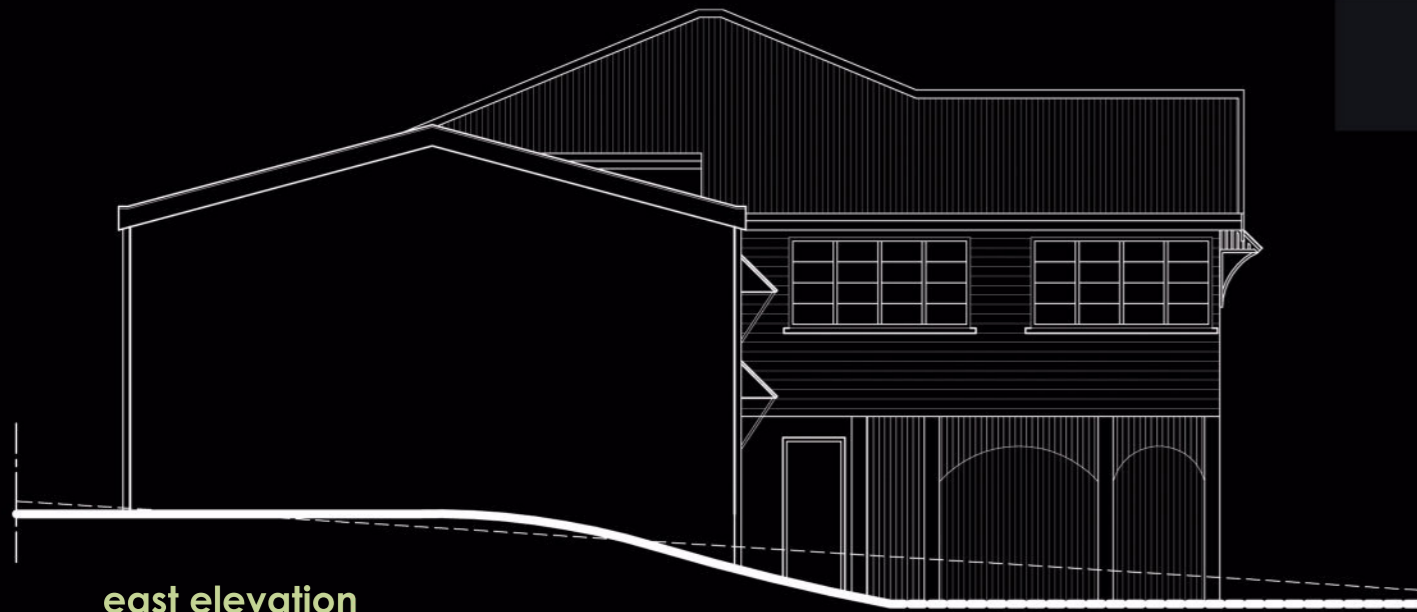
59 Cherside St
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design team: peter latemore and michael klug
 board designer: kate pullen

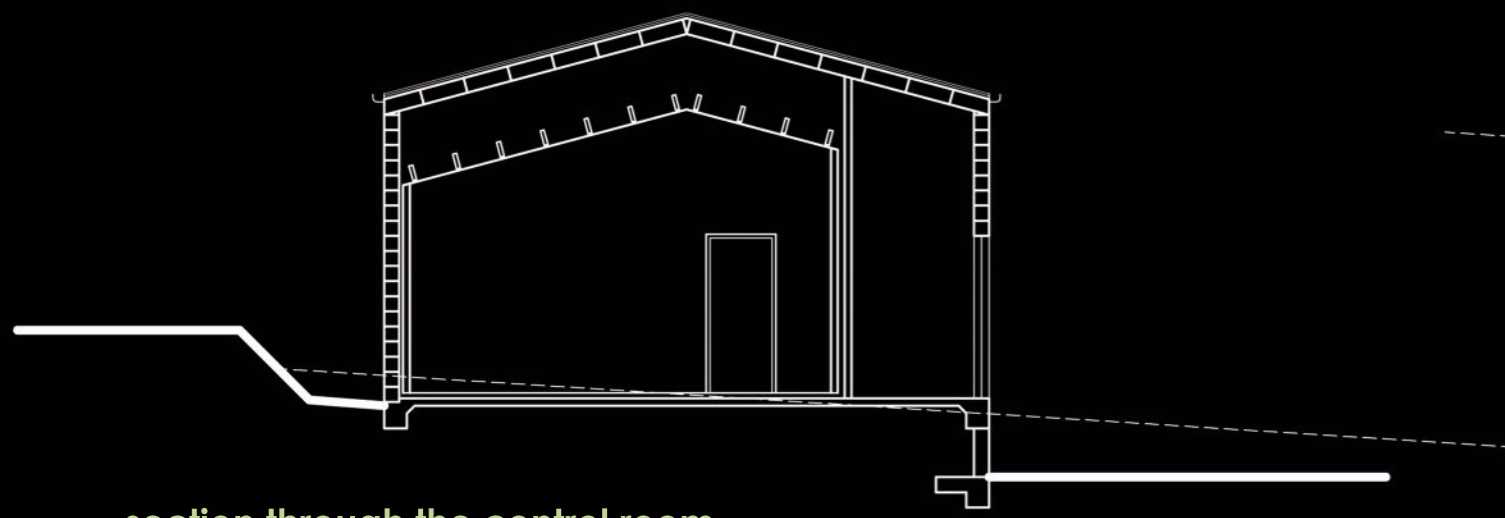
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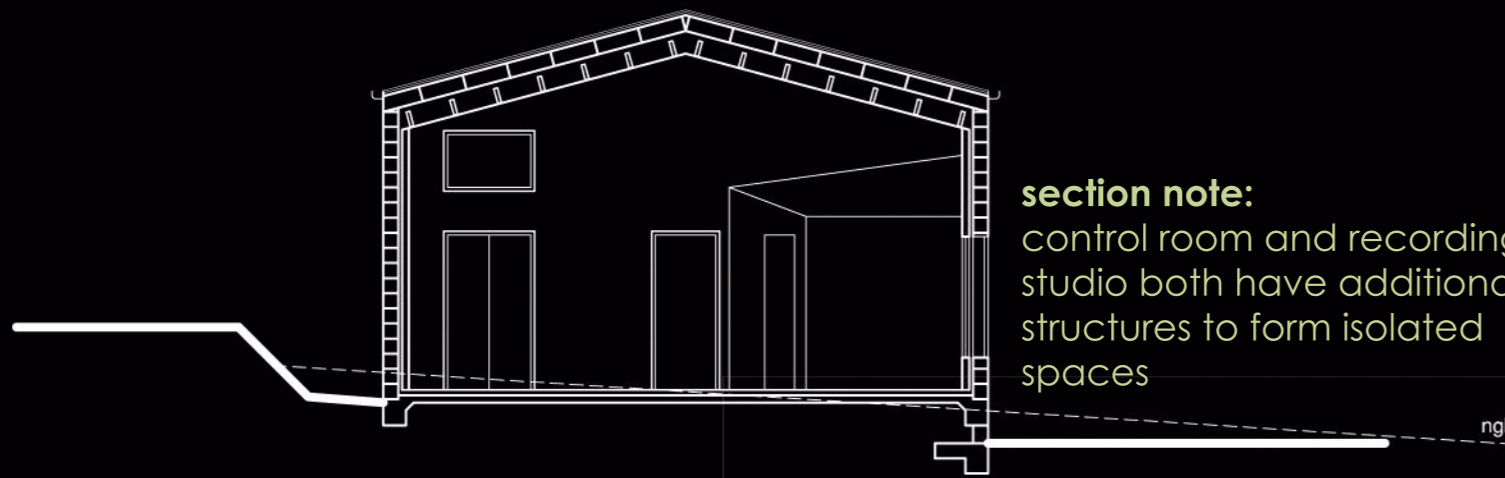
north elevation



east elevation



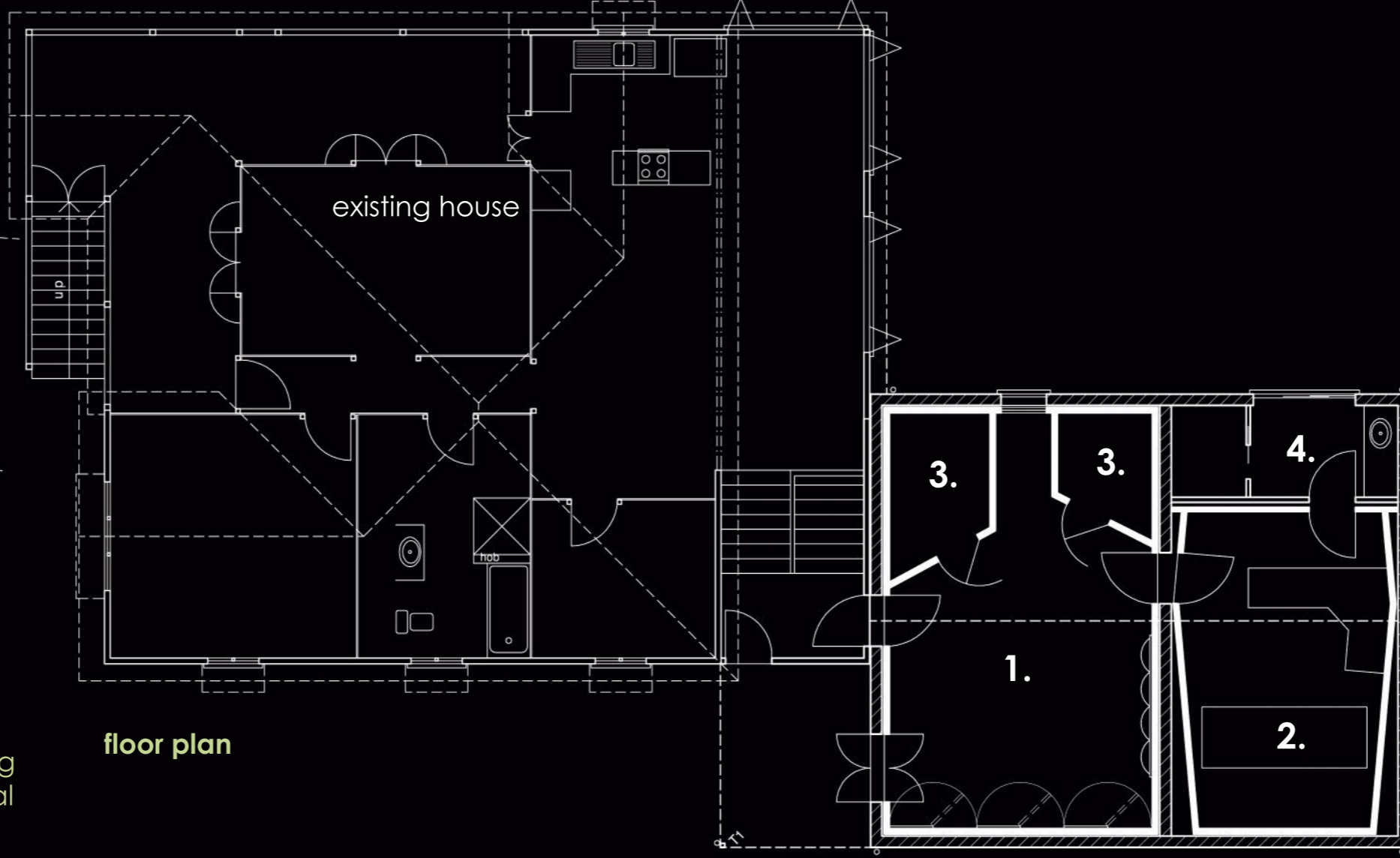
section through the control room



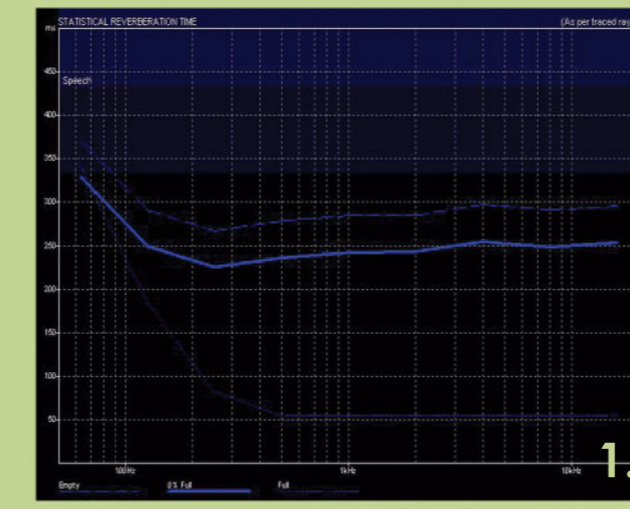
section through recording studio

section note:
control room and recording studio both have additional structures to form isolated spaces

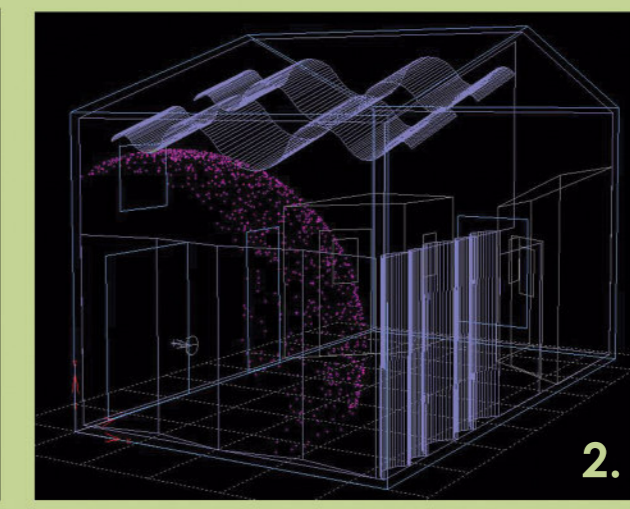
- 0 1 2 3 4
1. recording studio
 2. mixing studio
 3. isolation booth
 4. facilities



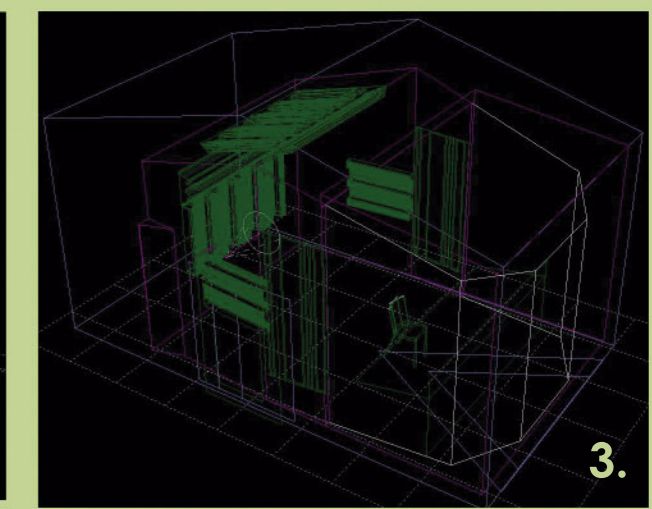
floor plan



1.



2.



3.

1. Control room calculated reverberation time using the highly accurate ray tracing method.
2. Example of the modeling technique called ray tracing. This image shows a sound wave 9 millisecond into its development inside the recording room.
3. Control room 3d wireframe with the different zonal components highlighted.



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baffling used as sound control throughout the studio



isolation booths for separated recording



inserting the hebel panels during construction



northern side of studio against the existing house

Owner lost his recording studio, when long-term leased rooms were demolished. A solution was to erect purpose built premises on his own property, and create a better facility in the process. Owner and DA required that the building have little impact on the neighbourhood, both visually and aurally. The building had to be 'sound proofed' as a whole, with the recording and mixing rooms separated from each other sound-wise. Isolation booths were required to record voice and instruments. Being 'enclosed', the recording room needed to be a fun and light space, as bands would use it for a week.

CSR Hebel was selected, with blocks for wall and panels for roof. This achieved a buildable structure and sound reduction in one. The Hebel easily allowed render, weatherboards and roofing to be applied externally, and produced volumes within which 'sound' rooms could be created. Each space has a fully separated timber structure, 'floating' over the slab, with considerable insulation and lead sheeting within the walls. Designer worked with acoustics engineer to achieve all this and produce the fun sound baffles. The movable panels were simple doors, clad with foam, while fixed ones are moulded mdf, completely air-sealed to obtain the correct sound control.

The studio is proving popular with Brisbane's musicians and bands, with neighbours unaware of its presence, so owner has achieved his goal.

90 stud wall with insulation at both sides of hebel wall

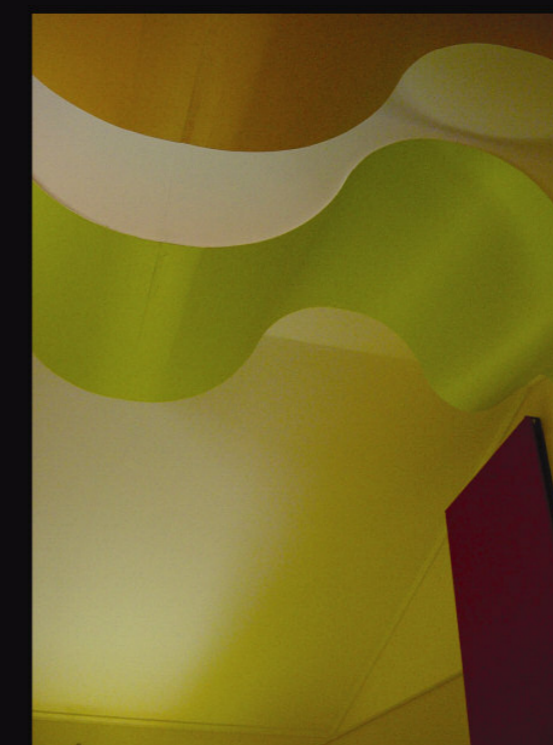
sound seal at door

hebel wall

lead infill between walls

solid door with foam baffle

floating timber floors separated at walls



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