



RGS-110

Foundation and floor make-up

- 100mm M.O.T. hardcore sub base
- 120mm Acoustic sub base insulation
- 2x layers of Damp proof membrane
- 100mm Concrete pad
- 450mm x 500mm deep footings
- Blockwork up to damp course

Walls Make-up **(Room within a room***)**

- Natural Rock-Clad exterior finish on 4x walls (colours options available)
- 12.5mm fibre concrete boards
- Treated batten timber 50mm x 25mm
- High-quality waterproof breathable membrane
- Dual opposing 4x2 inch stud walls @ 600mm centres sat on acoustic seal.
- 300mm Acoustic rock mineral fibre insulation
- 12mm OSB3 board
- 30mm British Gypsum SoundBloc boards
- Plastered with British Gypsum Multi-Finish
- Spray painted in Dulux (white as standard)
- 100mm white skirting board

Roof Make-up **(Ceiling and roof are separated***)**

- 9x2 timber roof joists
- 18mm OSB3 boards
- Rubber EPDM roofing membrane
- 220mm Acoustic insulation

Roof Make-up Continued.

- 9x2 Ceiling Joists (separate from roof joists)
- 12mm OSB Ceiling
- 30mm (2x Layers of Super-high density plasterboard)
- Professionally plastered
- Spray painted in Dulux

Decking

- Spans the full length of the front of the studio 500mm deep

Doors

- 2x sets of opposing french doors in black
- 2x Acoustic Laminated Glass

Electrics

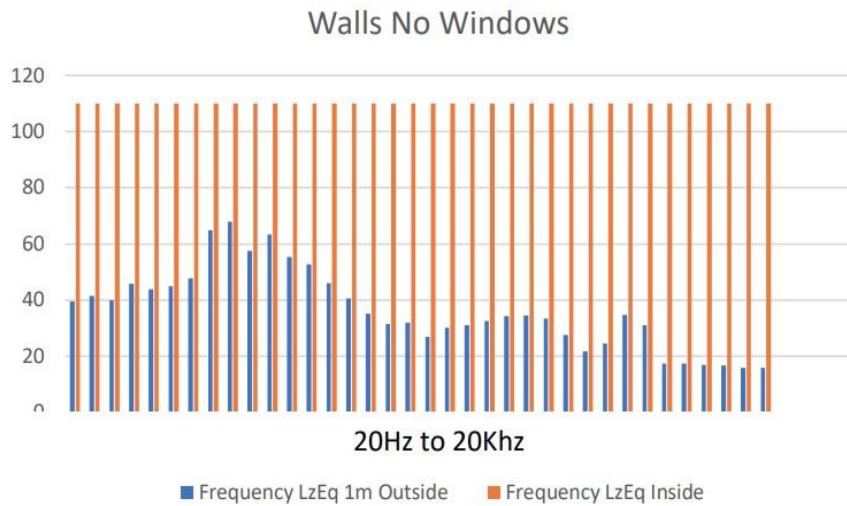
- 4 x wall-mounted lights
- 4 x surface-mounted double sockets
- 2 x outdoor light sets in the decking and canopy
- 1x floor-standing electric heater.

RGS-110:

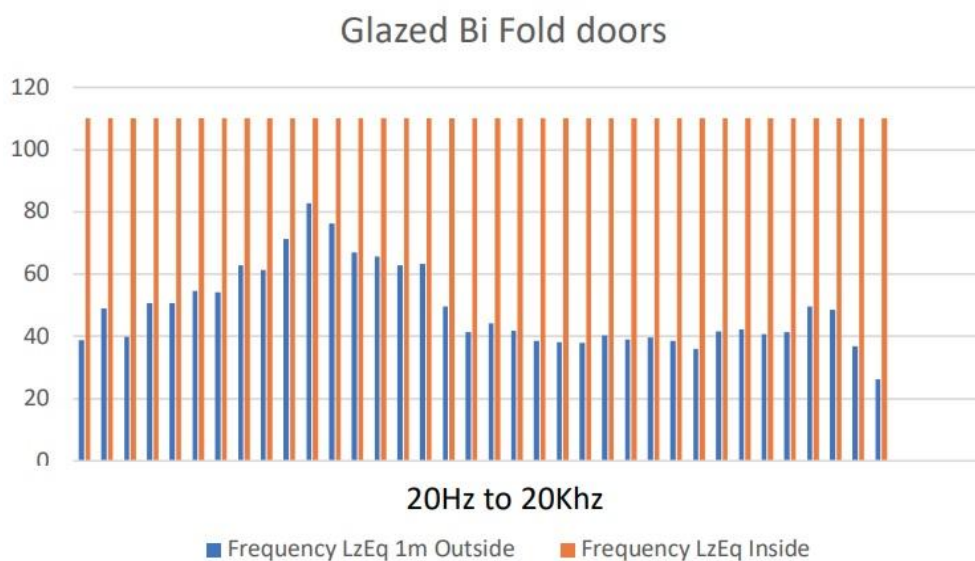
The RGS-110 is our top-of-the-line garden room, offering superior soundproofing and insulation compared to both the RGS-30 and RGS-45. The walls of the RGS-110 are 340mm thick, consisting of 2x layers of 15mm soundproof plasterboard and 200mm of high-density acoustic insulation incorporated as standard. It comes standard with double-glazed windows and doors featuring laminated acoustic glass with superior acoustic seals to help reduce sound transmission. The RGS-110 also features two sets of high-quality French doors with double seals, providing extra soundproofing. The dual doors are designed to create an air lock, helping to prevent sound from escaping and external noise from entering the studio. The RGS-110 is constructed from high-quality materials and is perfect for use as a professional recording studio, home cinema, or outdoor entertainment space. The studio also comes with a range of customizable options to suit your needs and preferences.

Sound Measurement Data Report:

A full band sound source was set up inside the room and measurements were taken at 1m from all 4 walls. The sound source was pink noise and the level set and recorded was 110dB inside the room. All doors and windows were closed and the Pink noise generated was continuous. Measurement Data Recorded levels for the four walls are as follows: Readings were averaged over 60 seconds for atmospheric variance.



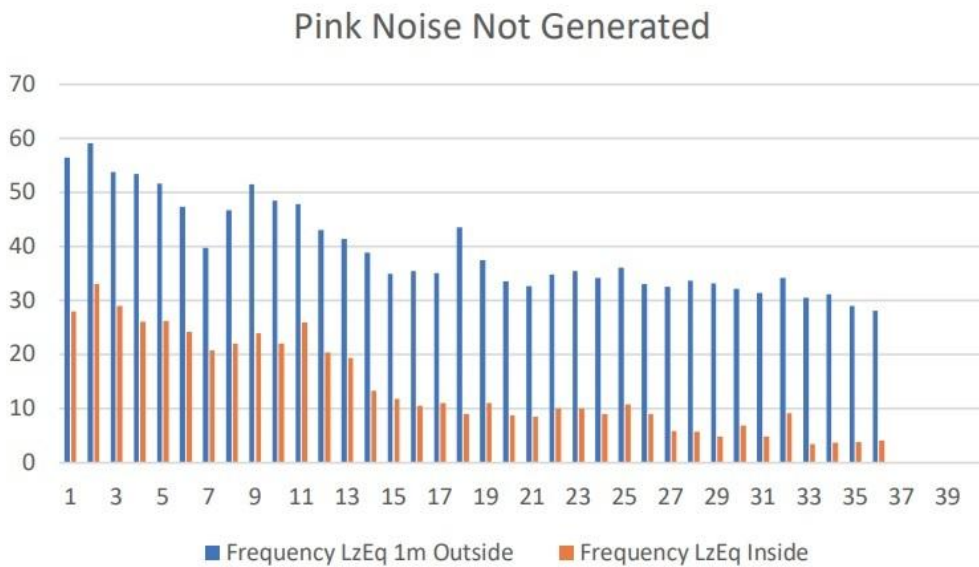
These are the average levels recorded at given frequencies, with the sound source playing inside at 110dB. The measurements for the four walls were a less than 0.2dB variance. The measurement taken with the glazed doors is below.



Measurement taken on wall with a twin opposing 700mm x 750mm windows with a 220mm gap at 1m.



The Average dB reduction across the frequency band LAeq 1min was 39.8dB The noise inside to outside without Pink noise being played is below.



Over all the materials used and the seclusion gained is substantial and the Garden Studio performs excellently with respect to the levels obtained inside and outside.

In conclusion:

This would be fit for purpose in any noise sensitive area for sound levels.

The internal SPL was 110dB and is way beyond reasonable and safe listening levels, and our studio is guaranteed to have ZERO effect on exterior noise sensitive areas. (nearby neighbours) at 5m.



