Refer to overleaf for various construction details to suit the required acoustic requirement.
Figure 1 - Rw50 (Typical) Wall Construction

Note:
All wall ceiling penetrations to be acoustically sealed. Pos to have acoustic box behind. Drawings is not to scale.
Figure 2 - Rw45 (Typical) Wall Construction

Note:
No untreated ceiling penetrations. Supply/ return air grilles to have insulated ducts behind. All wall/ ceiling penetrations to be acoustically sealed. PO’s to have acoustic box behind or offset minimum 600mm.
Figure 3 - Rw45 (Operating Theatres) Wall Construction

Note:
No untreated ceiling penetrations. Supply/return air grilles to have insulated ducts behind. All wall/ceiling penetrations to be acoustically sealed. PO’s to have acoustic box behind or offset minimum 600mm.
Figure 4 - Rw40 (Typical) Wall Construction

Note:
No untreated ceiling penetrations. Supply/ return air grilles to have insulated ducts behind. All wall/ ceiling penetrations to be acoustically sealed. PO’s to have acoustic box behind or offset minimum 600mm.
Figure 5 - Rw35 (Typical) Wall Construction

Note:
No untreated ceiling penetrations. All wall/ceiling penetrations to be sealed.
Figure 6 - Rw45 and Rw50 (Partition to External Wall Junction) Wall Construction

Figure 7 - Rw50 (Plant Room Wall to Corridor Wall Junction) Wall Construction
Figure 8 - Dummy Wall Detail

Mineral tile or plasterboard ceiling

Office/Meeting Room/Ward

Wall as per Figure 1 to Figure 7 above.

Gap to be no less than 10mm and no greater than 15mm filled to full depth with low modulus, non-slumping, PSA composite acoustic sealant.

75mm 11kg/m³ thick glass wool or polyester insulation.

Wet Area

13mm plasterboard

Pipework fixed to stud, not to contact primary wall.

Min 51mm stud space 10mm clear of plasterboard
Figure 9 - Plant Room adjacent to Office/Consult Room Wall Detail

- Mineral tile or plasterboard ceiling
- Gap to be no less than 10mm and no greater than 15mm filled to full depth with low modulus, non-slumping, PSA composite acoustic sealant.
- 75mm 11kg/m³ thick glass wool insulation in each stud track
- 2x13mm fire rated plasterboard
- 20mm gap
Figure 10 - Treatment of Waste and Stormwater pipes over Patient rooms, Offices, Consult/ Exam Rooms, Group rooms, Treatment rooms, Interview rooms and Meeting rooms

Figure 11 - Waste pipes above Wet/ Utilities areas