

5 ACOUSTIC WALL OPTIONS

There are three main acoustic wall options available dependent on specific requirements with each offering its own unique benefits [see **TABLE 2**]:

1. Double Steel SRP™ Stud Walls offer premium acoustic performance
2. SRP™ Whisperwall™ offers superior performance and
3. Staggered Steel SRP™ Stud Walls provide effective resistance to sound transmission and acoustic impact.

5.1 DOUBLE STEEL SRP™ STUD FRAME WALL TWO WAY FRR, ACOUSTIC AND INTER-TENANCY WALLS

[FIGURE 8]

Double SRP™ Stud walls are generally used where two way FRR [Fire Resistance Rating] or superior acoustic performance is required. This is mainly in inter-tenancy walls and corridors.

Install the walls as two separate parallel frames with a specified gap between them, using the relevant GIB® documentation in order to achieve the required STC and FRR rating. Refer to GIB® Noise Control Systems March 2006 and GIB® Fire Rated Systems October 2012 for more information. For building the two frames, use 63.5mm 0.55BMT SRP™ Studs together with 63.5mm 0.55BMT 30mm leg SRP™ Tracks as completely separate structures with no connection between them, especially if they are used for acoustic purposes.

The recommended maximum wall height is 2700mm.

NOTE: For other size SRP™ Studs, SRP™ Tracks or for taller partitions, specific engineering design verification of the performance is required.

Leave a 15mm expansion gap between the top of the SRP™ Studs and the underside of the head SRP™ Tracks.

Installation of the two separate parallel frames is exactly as per single walls installation, with one exception being that the internal side of both parallel SRP™ Stud wall frames are not lined. In both walls' external surfaces, ensure there is no fastening of the SRP™ Studs or the lining onto the top head SRP™ Track. Use SRP™ Continuous Nog Track for the wall structures to provide extra stability and rigidity of the walls if required.

For sound control infill, use 75mm thick R1.8 Pink® Batts® glasswool as a minimum, between the SRP™ Studs on one side of the double frame.

For plasterboard lining, fastening, acoustic sealant and jointing [stopping] details refer to GIB® Noise Control Systems March 2006, GIB® Fire Rated Systems October 2012.

FIGURE 8

SRP™ Double Steel Stud Frame Wall

