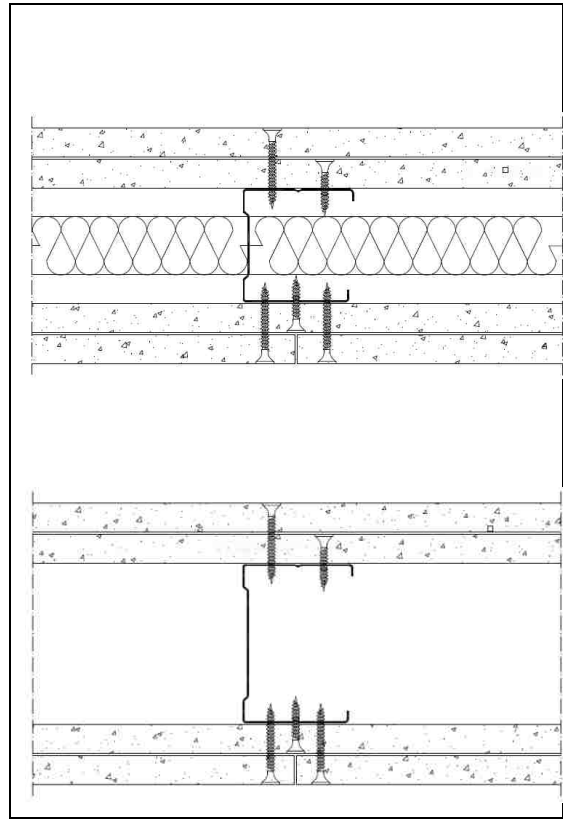
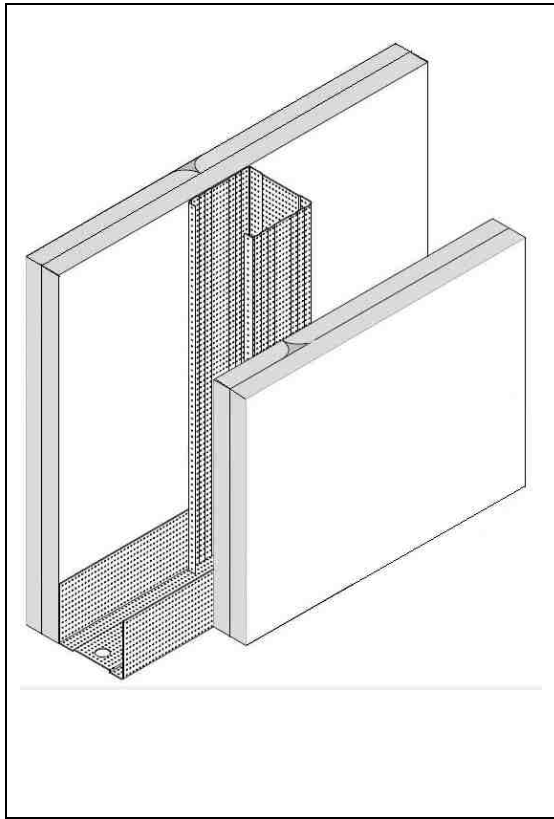

ESP D1 partitions.

Single stud Double board partition system



Application

Non loadbearing partition system suitable for residential, commercial, retail, hotel, education and leisure buildings. Offering the following advantages over traditional construction methods:

- Quick and easy dry build construction.
- Reduced wall thickness, increasing floor space
- Reduced construction weight
- Excellent performance for both fire resistance and sound insulation

U channels are fixed to floor and ceiling, studs are located inside the channels spanning floor to ceiling. Gypsum standard, fire, sound or specialist boards (to suit the performance requirements) are screw fixed to both sides of the studs and channels. Boards are sealed and finished to suit. Insulation can be located between the studs to enhance sound performance.

Water and electrical supplies can be easily located within the partition wall passing through the service cut outs in the studs.

Access panels can be located for easy access to services.

ESP D1 partitions.

Installation:

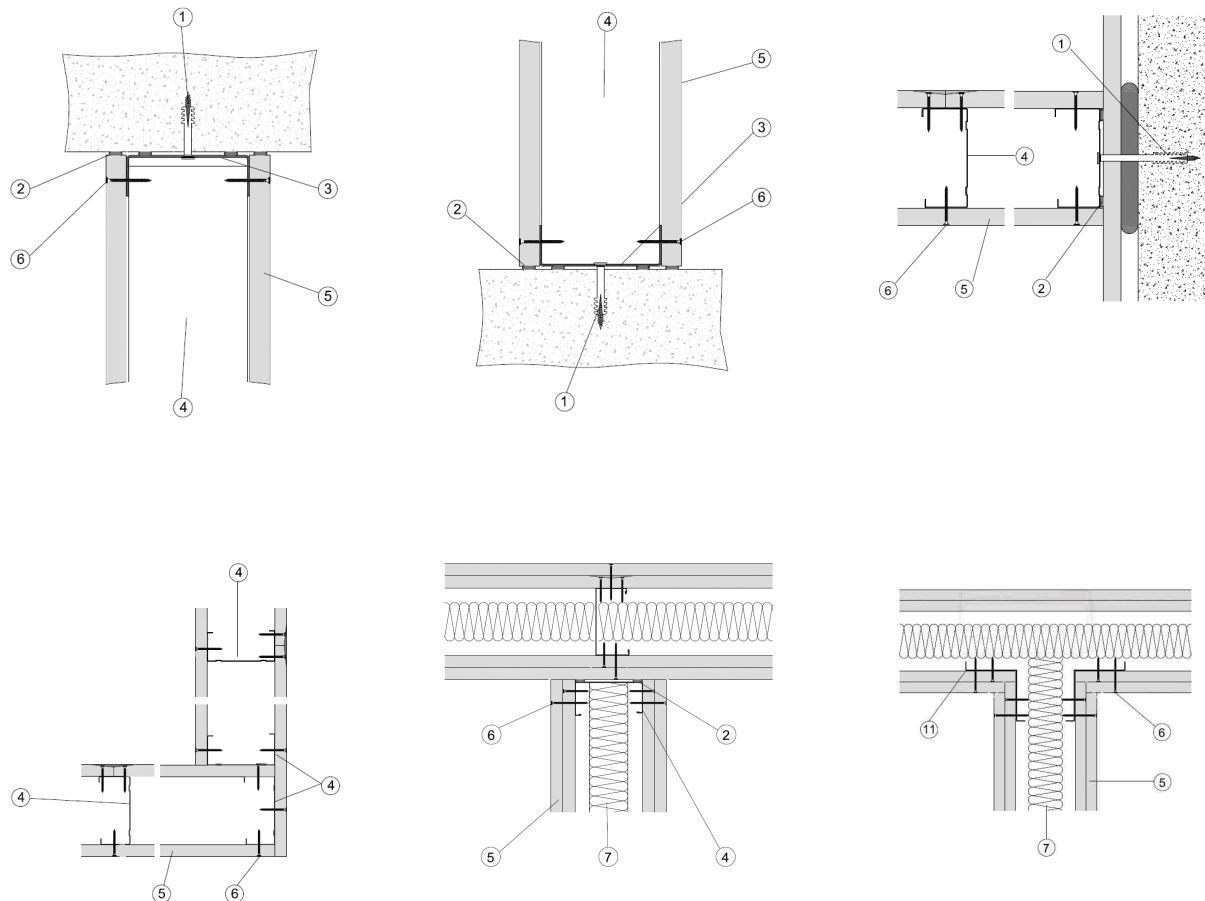
Mark the position of the partition on both floor and ceiling. Apply sealant to underside of U tracks and mechanically fix at 600mm centres. Fit C studs at abutment walls also with sealant and mechanical fixing.

Cut C studs to height of partition, making allowance for any deflection requirement. Locate the C studs into the U tracks at 600mm centres, reduced for high performance or heavy finishes / loads, such as in bathrooms or kitchens.

Screw fix boards to one side of the studs with drywall screws first layer at maximum 300mm centres, second layer at 300mm. reducing to 200mm centres at perimeter studs or channels. Where deflection is required at the partition head boards should not be directly screw fixed to the head track (see special fixing detail). Board should be staggered and fixing channel should be located behind the first layer and fixing plate between the first and second layer at all horizontal joints.

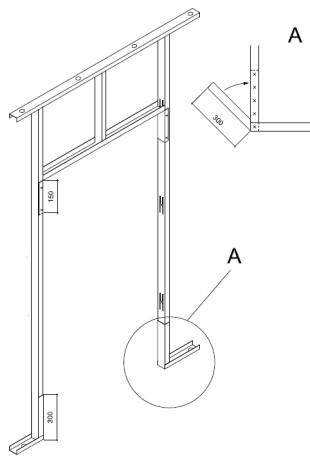
Services and insulation can be installed inside the cavity, following which the partition should be closed by fixing boards in the same way as detailed above to the second side.

Details

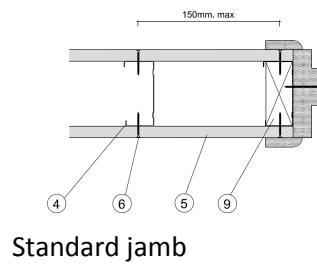


ESP D1 partitions.

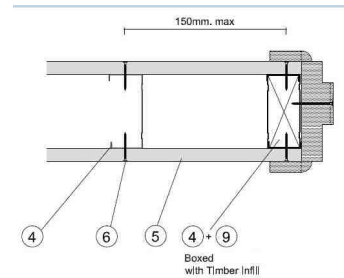
Openings



Metal stud frame

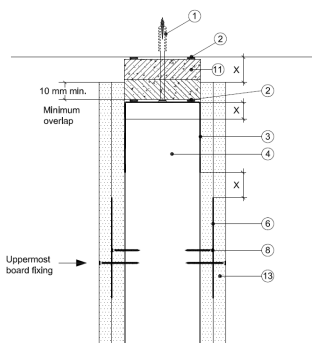


Standard jamb

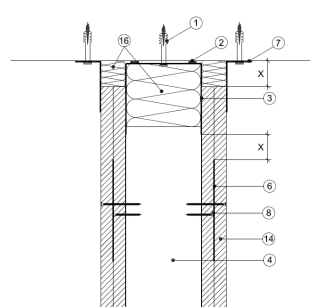


Heavy duty jamb

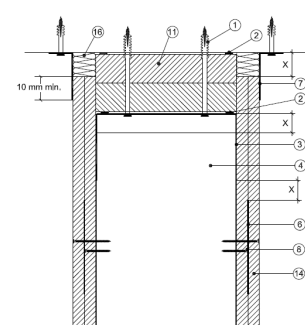
Head Details



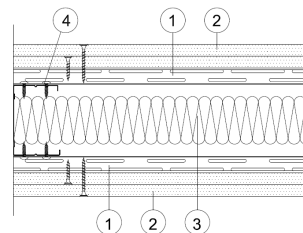
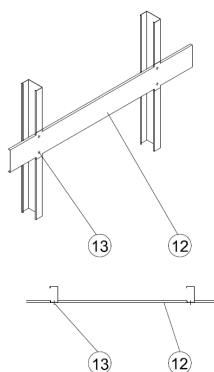
Deflection head a



Deflection head b



Deflection head c



ESP D1 partitions.

Specification: Performance

2 hour fire rated.

CFR 1911111G/b

Double layer 12.5mm Type F board both sides ESP C studs.

C Studs,

32 /50 /34/ 0.5mm

32 /60 /34/ 0.5mm

32 /70 /34/ 0.5mm

32 /92 /34/ 0.5mm

32 /146/34/ 0.5mm

DB ratings

SRLG 24480/3b

49 dB Rw = Double layer 12.5mm Type D sound board both side C70.

SRLG 24480/4b

54 dB Rw = Double layer 12.5mm Type D sound board with 25mm insulation
Both sides C70 studs

SRLG 24480/7k

47 dB Rw = Double layer 12.5mm Type D sound board both side C70.

SRLG 24480/8k

52 dB Rw = Double layer 12.5mm Type D sound board with 25mm insulation
Both sides C70 studs

SRLG 24480/13b.

54 dB Rw = Double layer 15mm Type D sound board with 25mm insulation.
Both sides C70 studs

SRLG 24480/10b.

49 dB Rw = Double layer 15mm Type D sound board both sides AC70 studs

SRLG 24480/12b.

54 dB Rw = Double layer 15mm Type D sound board with 25mm insulation.
Both sides AC70 studs