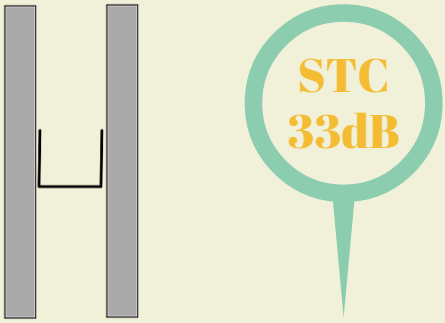
SOUNDPROOFING PARTITION WALL DESIGN

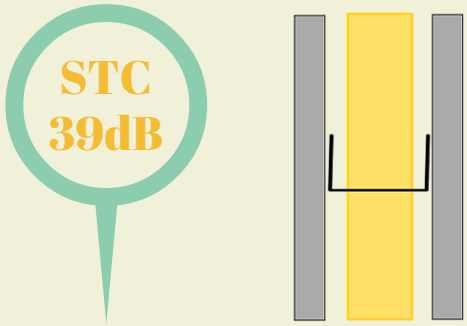
Noise attenuation is a major problem in the construction industry. In order to solve the problem we developed an innovative system for partition walls, the benefit being good interior acoustics leading to comfortable living. The measurement of attenuated sound energy is represented by Sound Transmission Class (STC), which is an rating of how well a partition wall attenuates airborne sound.

From the partition walls designs below you can see the noticeable advantage of using AM-Board solution over the plasterboard design

Typical partition wall design

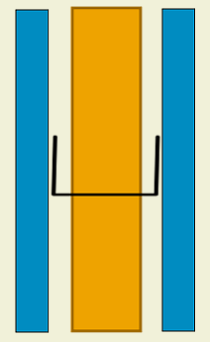


Single layer of 12,5 mm plasterboard on each side with no acoustic insulation.



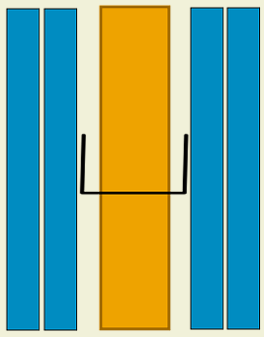
Single layer of 12,5 mm plasterboard on each side with fiberglass insulation.

AM building partition wall design



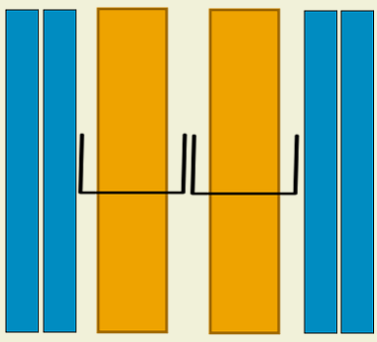
C stud profile
2x AM-Board
Acoustic insulation

Partiotion wall thickness:
70 mm



C stud profile
4x AM-Board
Acoustic insulation

Partiotion wall thickness:
90 mm



2x C stud profile
4x AM-Board
Acoustic insulation

Partiotion wall thickness:
140 mm