



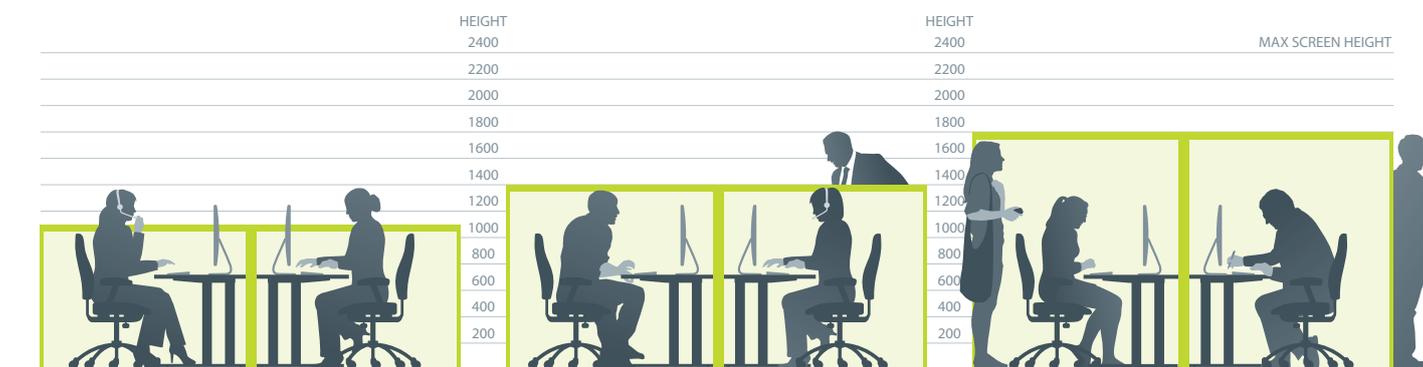
Simple ways to improve acoustics at work

Workplace noise affects many people and reduces the effectiveness of staff to do their job. Here are some simple measures that can help.

Increase acoustic privacy using screens

The higher the screen, the greater the acoustic privacy. It might seem obvious, but even a small increase in height can improve acoustics for a person seated at a desk.

BS EN 1023-1 European standard heights for office screens



Height 1100

Eye contact in the sitting position

This screen height is sufficient to divide workspace without affecting vision.

Height 1400

No eye contact in the sitting position

This screen height offers a high level of privacy whilst still enabling a seated person some degree of visual and audible communication.

Height 1800

No eye contact in the standing position

This screen height and above offers total privacy and excellent acoustic insulation eliminating nearly all distractions from the surrounding area.

Screen position in relation to noise source

The positioning of the screen in relation to the noise source and receiver will determine the acoustic efficiency of the screen.

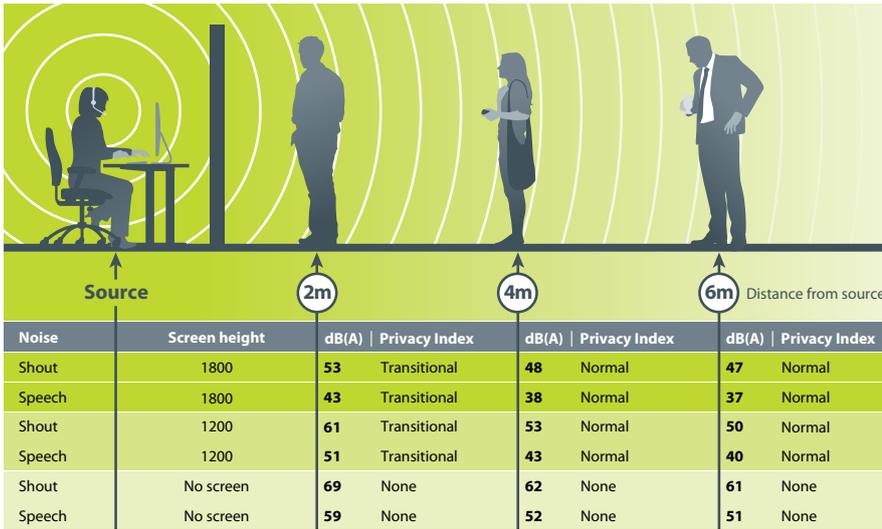


The greater the distance between the source, the screen and the receiver the less the acoustic shadow cast by the screen and therefore a decrease in acoustic efficiency.



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Reduction in dB(A) using AA65 screens



Noise levels

Normal Speech (male) = 65dBA
 Shout (male) = 75dBA
 Typical environmental background noise level = 45dB

Privacy Index (PI)

No privacy = PI 0 - 69%
 Transitional privacy 'poor' = PI 70 - 79%
 Normal privacy 'non-intrusive' = PI 80 - 94%

Reduce reverberant sound using absorbing materials

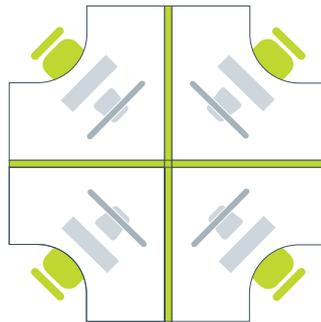
The most effective way to reduce reverberation is by absorption, leaving reflected and transmitted noise to a minimum.

Special sound absorbing products like AA65 screens are most effective, but, adding any materials with softer surfaces, such as carpet or fabric, will help.

Use desk layouts that suit a persons work

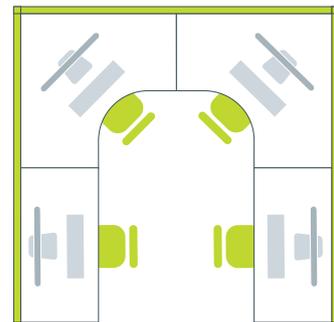
Cluster or coral? If staff frequently communicate with each other then a cluster arrangement with low screens is most appropriate. A coral layout with high screens ensures good privacy and enables people to communicate if needed.

Cluster



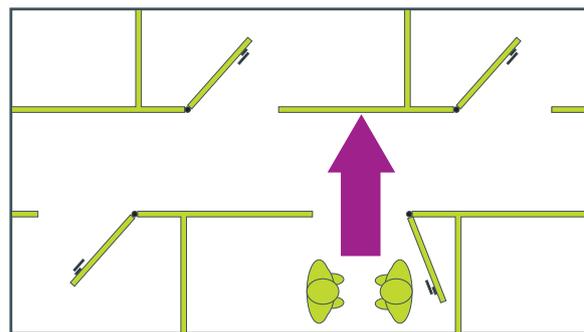
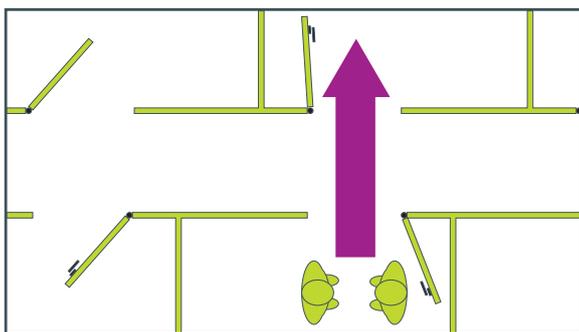
Good for staff contact.
 Provides no privacy.

Coral



Layout footprints are the same.

Good for staff contact.
 Affords good privacy.



Stagger door positions in partition layouts

When designing partition layouts always try and stagger the position of the office doors in the corridors. This will help stop the sound energy from conversations flowing straight from one office to the other.

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