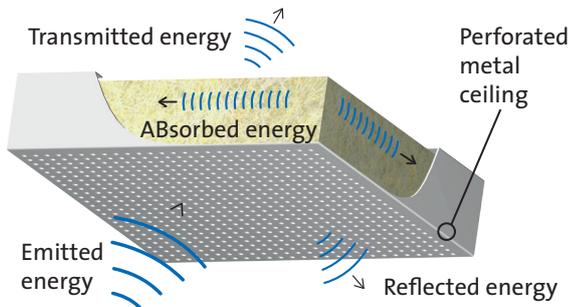


Since the ceiling is generally the largest single free surface in a room, it plays a primary role in improving acoustic comfort.

Here is some background on acoustic metal ceilings:

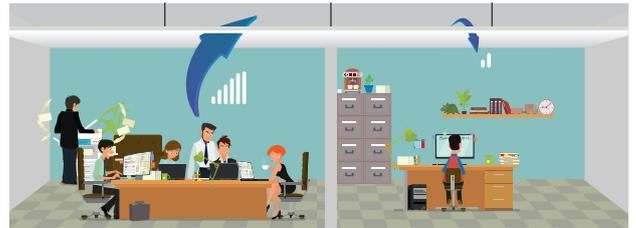
ABSORPTION (α_w)



The acoustic absorption performance of a suspended ceiling can be defined by its capacity to reduce sound energy through total or partial absorption. This ability to absorb sound is determined with the α_w coefficient, which can be used to compare acoustic performance via a scale ranging from 0 (no absorption) to 1 (total absorption).

Plafometal offers a range of metal ceilings that are specifically designed to deliver high acoustic absorption and lateral sound insulation performance.

SOUND INSULATION ($D_{n,f,w}$)



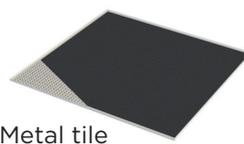
The sound insulation performance of a suspended ceiling can be defined by its ability to reduce the propagation of sound waves between adjacent rooms sharing the same plenum. It is expressed in decibels.

PLAFOMETAL RANGES

An end-to-end range of solutions to address every need

■ ALPHA + GREATER INTELLIGIBILITY

Metal tiles and panels covered with a new-generation thermal bonded acoustic fleece for an absorption coefficient α_w up to 0.85.



Metal tile



Panel

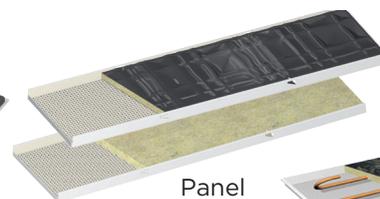
■ ALPHA PLUS + SUPERIOR ACOUSTIC COMFORT

Metal tiles and panels covered with a high-density mineral wool pad in thin plastic film or with a black tissue face for an absorption coefficient α_w up to 1.

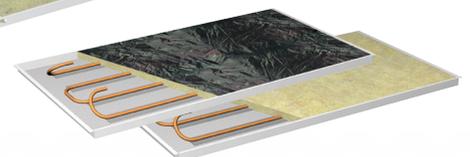
The ALPHA PLUS range is also available with Plafometal climate ceilings.



Metal tile



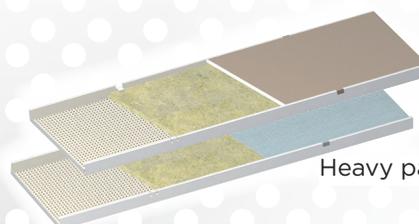
Panel



Climate ceiling panel

■ DECIBEL + MORE PRIVACY

Panels covered with a mineral wool pad and rear top plate for lateral sound insulation $D_{n,f,w}$ up to 52 dB and an absorption coefficient α_w up to 0.75. The DECIBEL range is also available with Plafometal climate ceilings.



Heavy panel



Climate ceiling panel