



Sound absorption values and classes

Sound absorption is measured using the sound absorption coefficient alpha (α), which has a value between 0 and 1.00. Zero represents no absorption (total reflection), and 1.00 represents total absorption of the incident sound.

Sound absorption class

To enable simple comparison between products acoustic materials are classed on a scale from A to E, with A-rated products having the highest rated sound absorption performance. Many of Acoustic Comfort's products are A-rated.

First, a material is tested to obtain absorption coefficient values over a range of standard test frequencies, according to BS EN ISO 354. These are then plotted on a graph to produce an absorption curve.

The sound absorption class is attained by comparing these values against a reference curve, resulting in an A weighted sound absorption coefficient (α_w) calculated in accordance with BS EN ISO 11654.

Sound absorption table

