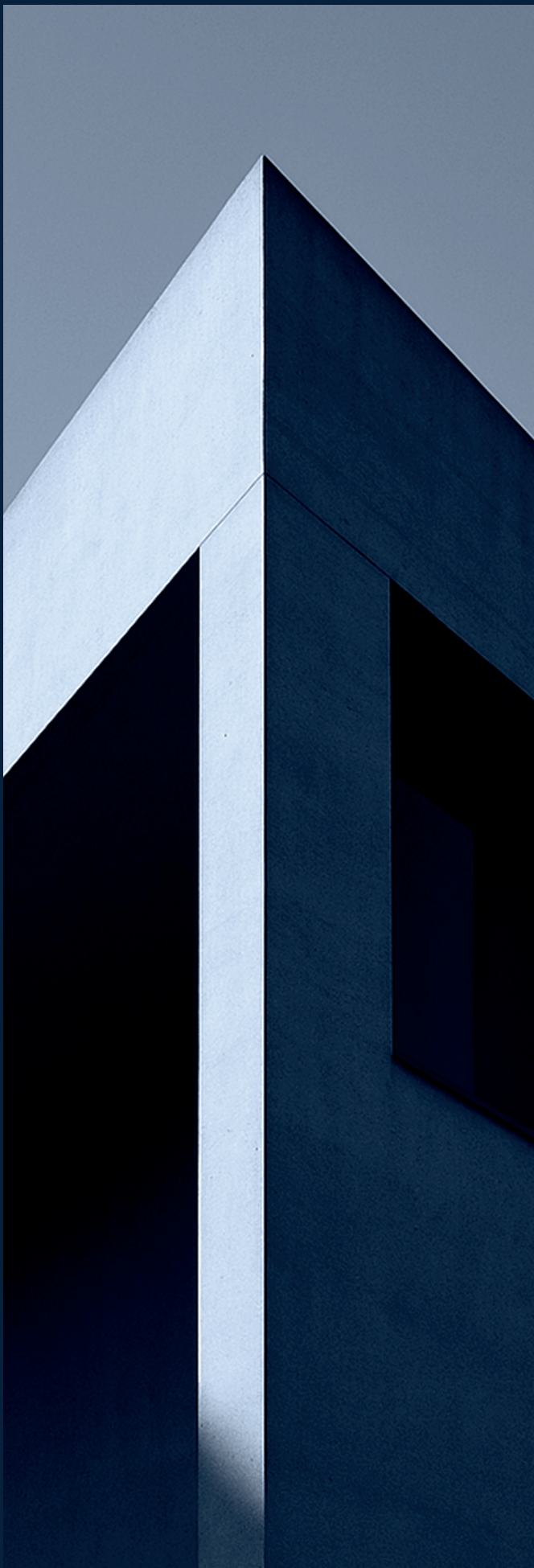




areco

Acoustics

Sound insulation using ASP mineral wool panels

Silence born from stone

ASP mineral wool panels offer excellent sound insulation for demanding public buildings and for residential projects. The natural density, fibre structure and damping properties of mineral wool make it a superior solution when the goal is a pleasant and functional sound environment.

Tested performance

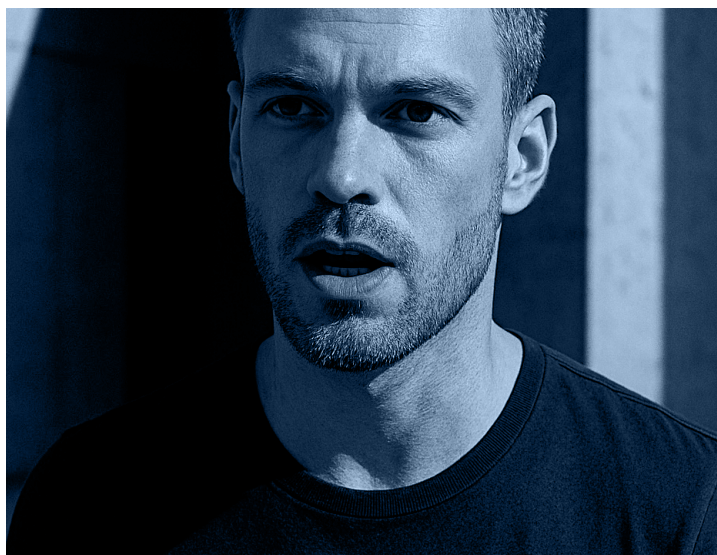
Independent laboratories (e.g. Eurofins) have tested the panels, which meet the requirements of the Finnish building regulations and European standards.

ISO 10140

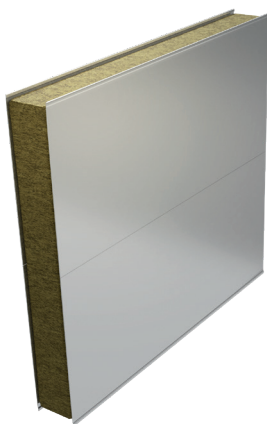
measurement of acoustic properties

EN ISO 717-1

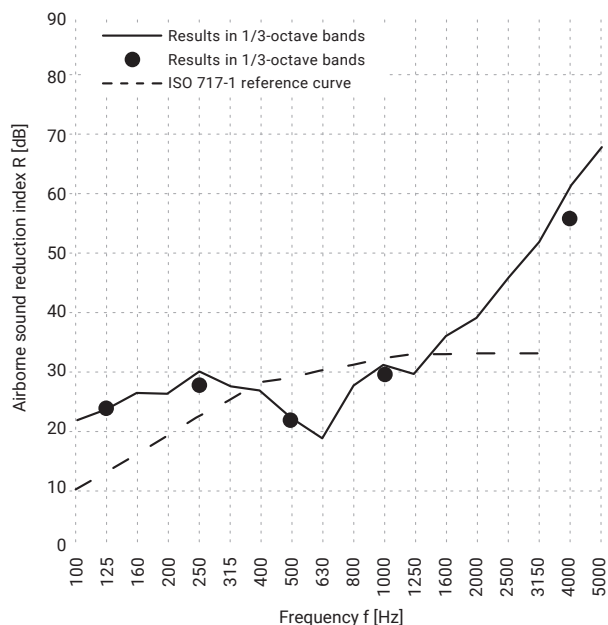
rating of airborne sound insulation



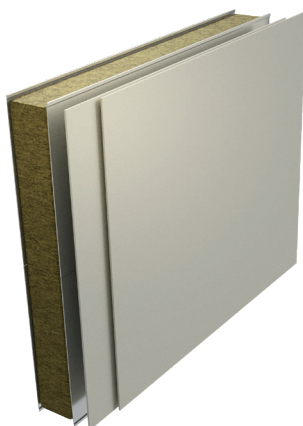
Standard panel ASP-L 240 mm with excellent sound-insulating properties



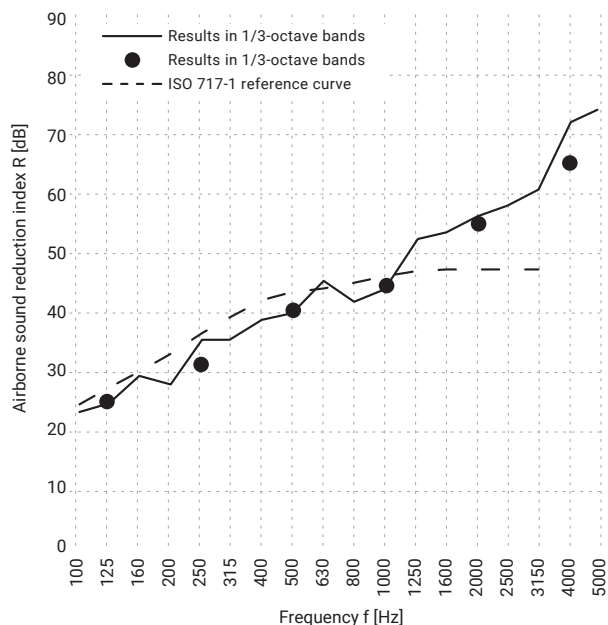
R_w	29 dB
R_w+C	28 dB
R_w+C_{tr}	26 dB
$R_w+C_{100-5000}$	29 dB
$R_w+C_{50-3150}$	28 dB
$R_w+C_{50-5000}$	29 dB
$R_w+C_{tr,100-5000}$	26 dB
$R_w+C_{tr,50-3150}$	26 dB
$R_w+C_{tr,50-5000}$	26 dB



ASP-T 240 mm panel with plasterboard on a hat profile, for office buildings or other acoustically demanding spaces



R_w	43 dB
R_w+C	42 dB
R_w+C_{tr}	37 dB
$R_w+C_{100-5000}$	43 dB
$R_w+C_{50-3150}$	41 dB
$R_w+C_{50-5000}$	42 dB
$R_w+C_{tr,100-5000}$	37 dB
$R_w+C_{tr,50-3150}$	35 dB
$R_w+C_{tr,50-5000}$	35 dB



Guideline value for sound insulation

Sound insulation, dB	Panel thickness, mm						
	100	120	150	175	200	240	300
R_w	31	31	31	30	30	29	29

Building material acoustics

The acoustic properties of building materials have a decisive impact on a room's comfort, functionality and sound quality. Good acoustics result when materials dampen sound in a controlled way and prevent disruptive echo.

Carefully planned acoustics make a building quieter and clearer, and create a more pleasant environment where sound functions as part of the architecture.

Contact your local sales representative for more information.

areco

