

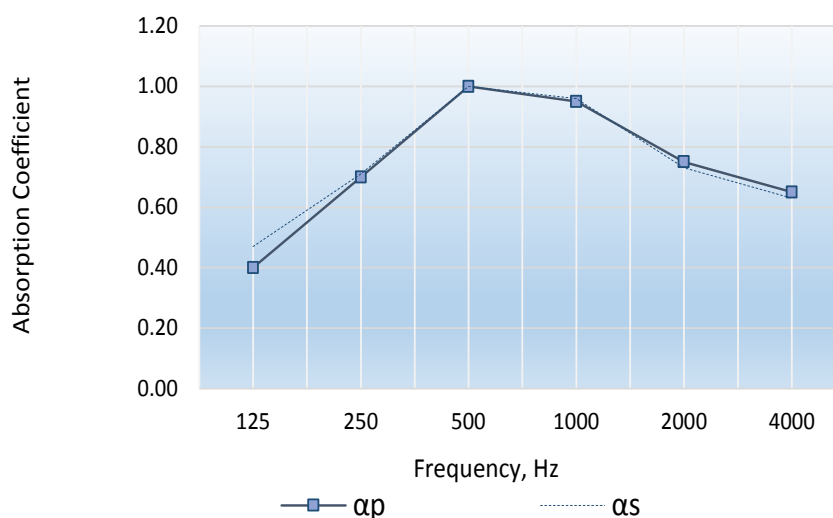
ACOUSTIC STATEMENT

ABSORPTION

Test reference	:	AB/10 C/22862 - 03
Sponsor	:	SAS International
Date	:	6 th October 2014
Test method	:	BS EN ISO 354:2004
Panel specification:		600mm wide perforated chilled ceiling panels c/w black acoustic fleece backing
Perforation	:	1511 (1.5Ø holes, 11% free area) with 10mm plain borders
Chilled Element	:	4No. 80mm wide roll formed chilled element carrier's factory bonded into panels at 150mm centres
Acoustic infill	:	30mm x 45kg/m ³ Mineral wool wrapped in a black polybag with 12.5mm plasterboard overlay
Void depth	:	E400

RESULTS

Freq (Hz)	α_p
125	0.40
250	0.70
500	1.00
1000	0.95
2000	0.75
4000	0.65



Single figure rating	:	α_w	0.80	In accordance with BS EN ISO 11654: 1997
Sound Absorption Class	:	Class	B	
Single Figure Rating	:	NRC	0.85	In accordance with ASTM C423-01

During testing, absorption coefficients occasionally reach values greater than unity. Theoretically this is impossible by definition. These anomalies occur due to diffraction of the impinging sound waves at the edges of the test samples. In practical terms this is insignificant. Absorption coefficients greater than unity are assumed to be unity and reported as such.

Data shown has been extracted from tests sponsored by and undertaken on behalf of SAS International Limited by a UKAS accredited independent laboratory. The results shown can only be considered to be indicative of the system. They are a reflection of the prevalent environmental conditions at the time of testing only. These results should not be considered as an infallible assessment of the Project specific requirements. Project environmental factors may differ considerably to the test environment and should not be considered to be equal or equivalent.

Please note: For the sake of robustness, acoustic tests undertaken represent a worst case scenario. Tests are carried out with mineral wool acoustic inlays, which are wrapped in polybags and laid over the black tissue. Removal of the impervious polyethylene layer between the tissue and mineral wool will not diminish acoustic performance.

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