

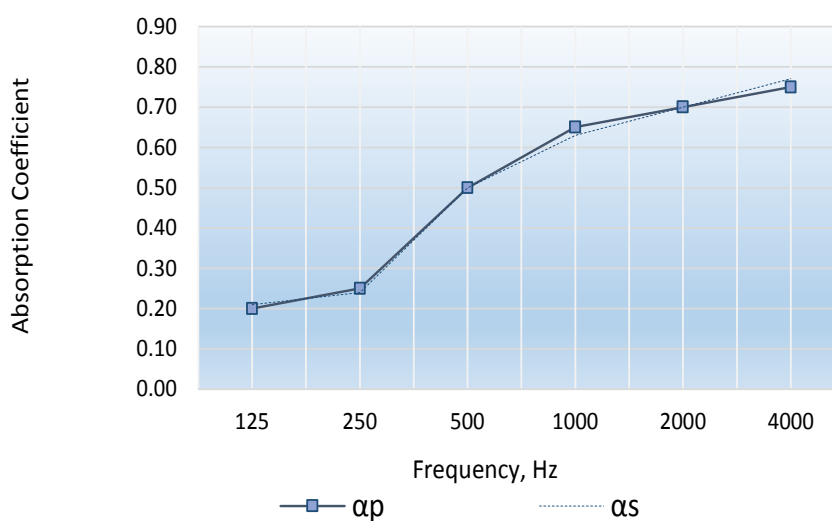
# ACOUSTIC STATEMENT

## ABSORPTION

<b>Test reference</b>	:	AB/10 C/22984/T01 - 19
<b>Sponsor</b>	:	SAS International
<b>Date</b>	:	11 <sup>th</sup> December 2014
<b>Test method</b>	:	BS EN ISO 354:2004
<b>Panel specification:</b>		150Ø system 500 acoustic cylinders
<b>Perforation</b>	:	1522 (1.5Ø holes, 22% free area)
<b>Acoustic infill</b>	:	150Ø x 45kg/m <sup>3</sup> black tissue wrapped mineral wool
<b>Baffle centres</b>	:	1000mm
<b>Void depth</b>	:	450mm

## RESULTS

Freq (Hz)	$\alpha_p$
125	0.20
250	0.25
500	0.50
1000	0.65
2000	0.70
4000	0.75



<b>Single figure rating</b>	:	$\alpha_w$	<b>0.50(H)</b>	In accordance with BS EN ISO 11654: 1997
<b>Sound Absorption Class</b>	:	Class	<b>D</b>	
<b>Single Figure Rating</b>	:	NRC	<b>0.55</b>	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.