

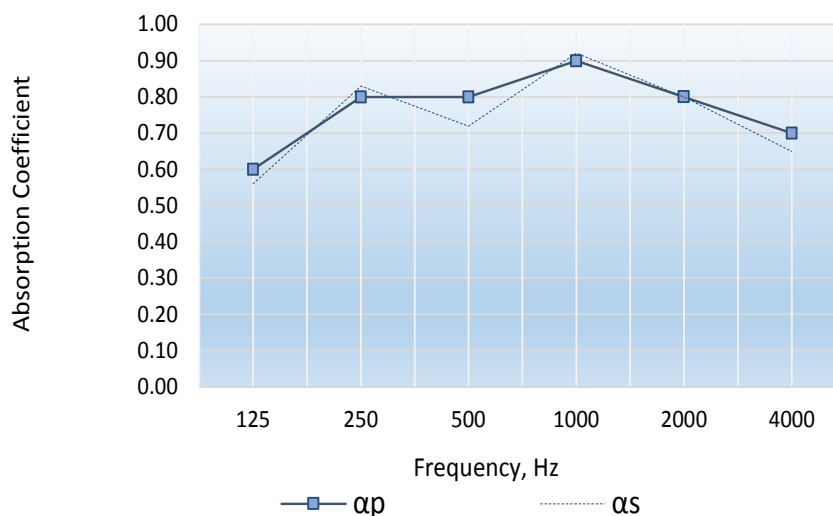
## ACOUSTIC STATEMENT

### ABSORPTION (CHILLED CEILING)

|                             |   |   |
|-----------------------------|---|---|
| <b>Acoustic infill</b>      | : | 18mm x 80kg/m <sup>3</sup> Mineral wool wrapped in a black polybag                              |
| <b>Perforation</b>          | : | 1511 (1.5Ø holes, 11% free area) with 10mm plain borders  |
| <b>Chilled Element</b>      | : | 4No. 80mm wide roll formed chilled element carriers factory bonded into panels at 150mm centres |
| <b>Panel specification:</b> |   | 600mm wide perforated chilled ceiling panels c/w black acoustic fleece backing                  |
| <b>Void depth</b>           | : | E400  |
| <b>Test reference</b>       | : | AB/10 C/22932 - 04  |
| <b>Sponsor</b>              | : | SAS International   |
| <b>Date</b>                 | : | 6 <sup>th</sup> November 2014   |
| <b>Test method</b>          | : | BS EN ISO 354:2004  |

### RESULTS

| Freq (Hz) | $\alpha_p$ |
|-----------|------------|
| 125       | 0.60       |
| 250       | 0.80       |
| 500       | 0.80       |
| 1000      | 0.90       |
| 2000      | 0.80       |
| 4000      | 0.70       |



|                               |   |            |             |  |
|-------------------------------|---|------------|-------------|--|
| <b>Single figure rating</b>   | : | $\alpha_w$ | <b>0.80</b> | In accordance with BS EN ISO 11654: 1997 |
| <b>Sound Absorption Class</b> | : | Class      | <b>B</b>    |  |
| <b>Single Figure Rating</b>   | : | NRC        | <b>0.80</b> | In accordance with ASTM C423-01          |

The measurement methodology and associated analysis results in absorption coefficients greater than unity. This is due to diffraction at the edge of the sample and is considered within the measurement standard by specifying the sample dimensions and perimeter detailing.

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:** Tests are carried out with mineral wool acoustic inlays which are wrapped and sealed in polyethylene bags and laid over a black tissue. Additional details are available on request.